Oil, Paint and Drug Reporter

THE CHEMICAL MARKET AUTHORITY

Volume 137
Number 6

SINCE 1871

FEBRUARY 5, 1940

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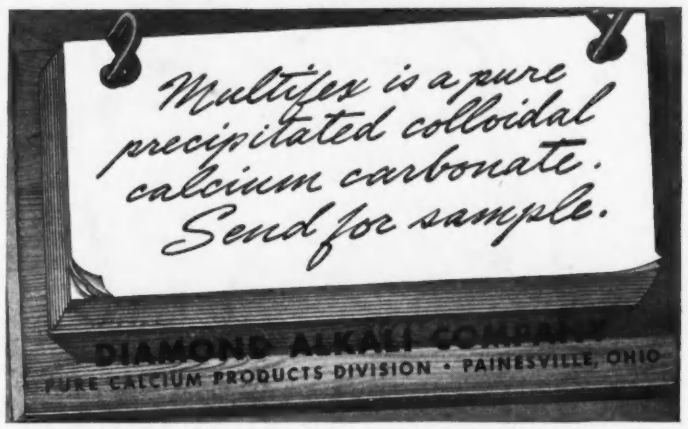
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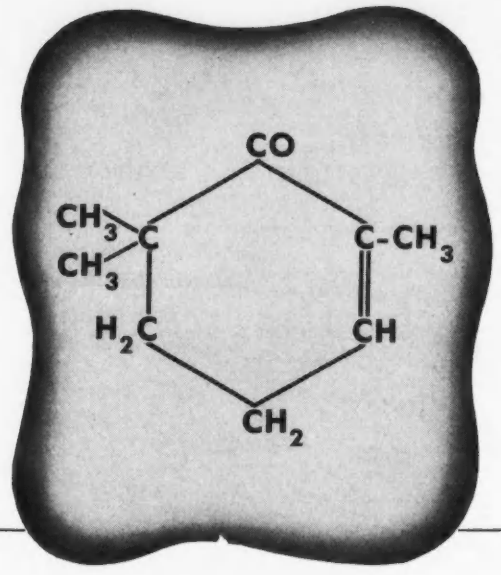

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* * *

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Chemist Advisory Group Reviews Its Work

In its second annual meeting January 31 in this city, the Chemist Advisory Council reviewed and analyzed the work done during the past year in its functioning as a clearing house for information relative to unemployed chemists and chemical engineers and for the relieving of immediate needs among them. During the past year 594 unemployed persons had registered with the council, in comparison with 690 in the preceding year.

There was a feeling that the apparent oversupply of chemically trained persons was in large part the result of the condition that educational institutions and students had come to overestimate the opportunities in the chemical field, especially in comparison with that of mechanical engineering.

The council offers its services to unemployed chemists and chemical engineers and to industry without charge. It requires some money for operating expenses and some for loans to needy applicants. It is supported by voluntary contributions, and it appears that its needs are neither so known nor so appreciated as to provide it with funds sufficient for its potential service. The council does not operate an employment agency.

Contributions to the council in the past year amounted to $6,219.52. Its expenditures were $4,888.82, and it has

—Continued on page 31

Paint Technicians Of South to Meet

The Southern States Federation Associates, the Southern section of the Federation of Paint and Varnish Production clubs, will hold its sixth annual convention February 22 to 24 in the Atlanta-Biltmore hotel, Atlanta. The second Southern Paint Industries Show will be held in conjunction with the meeting.

P. C. Kollie, of F. J. Cooledge & Sons, Atlanta, is chairman of the program committee for the meeting. R. A. Perry, of the Warren Paint & Color Company, Nashville, is arranging the round-table forum. Arrangements for the paint show are in the hands of A. P. Mills, of the DeSoto Paint & Varnish Company, Memphis.

In its present form the program of the meeting is as follows:—

Thursday, February 22

3:00 p.m.—Registration opens.
6:00 p.m.—Paint Industries Show opens.
9:00 p.m.—Paint show closes.

Friday, February 23

8:30 a.m.—Registration and Paint Industries Show open.
9:30 a.m.—Convention opened by President Hugh Aiken.
Introduction of the president of the Federation of Paint and Varnish Production Clubs, R. J. Smith.
Report of Paint Industries Show committee, A. P. Mills.
Report of entertainment committee, P. C. Kollie.
"Some Notes on Zinc Oxide in an Alkyd Vehicle," A. C. Eide, of the American Zinc Sales Company.
"Developments in Domestic Oils," L. J. Reizenstein, of Falk & Co.

—Continued on page 44

N.P.V.L.A. Southern Zone Meeting Feb. 22

The Southern zone meeting of the National Paint, Varnish and Lacquer Association will be held in the Atlanta Biltmore hotel, Atlanta, Ga., February 22 at 10 a.m. The meeting will be held during the week of the conference of the Southern Associates of the Federation of Paint and Varnish Productions Clubs. However, the Southern associates will not have a technical session on the program for February 22.

Canada Levies Bromides Duty

Hydrobromic acid, ammonium bromide, potassium bromide and sodium bromide are added to the list of acids and chemicals made in Canada and, three weeks' notice having been given, will be subject February 5 to duty, upon importation from the United States, under Tariff Item 711 at 20 percent ad valorem instead of under Item 208t at 17½ percent.

Hospital Appropriation Asked By President

OPD Washington Bureau
January 30, 1940

Postponement of congressional action on the vast public health program embodied in the Wagner bill and often referred to as "socialized medicine," was suggested by President Roosevelt today in a special message to Congress asking instead for a program of constructing small hospitals throughout the country.

In his message the President said:—

In my special message to the Congress on January 23, 1939, I expressed my concern over the inequalities that exist among the States as to health services and resources with which to furnish such services. With that message I transmitted the report and recommendations on national health prepared by the Interdepartmental Committee to Co-ordinate Health and Welfare Activities and

—Continued on page 58

Chemical Developments Linked With Charcoal Iron Project

OPD Washington Bureau
January 30, 1940

Establishment of a metallurgical and electrochemical industry in the Pacific Northwest is a definite objective of the Washington administration, and a number of government departments are actively studying the possibilities and attempting to interest private industry.

The present primary motive of the government is to obtain outlets for electric power now becoming available in large quantities at Bonneville dam at the mouth of the Columbia river near Portland, Ore., and to be available in larger quantities upon the completion of Grand Coulee dam farther up the river. It was the availability of this power which prompted the widespread discussion a couple of years ago of production of phosphatic fertilizer from Northwestern deposits, a project which appears to be quiescent at present. The Aluminum Company of America has contracted for a large amount of power for a new plant to be built in the vicinity of Bonneville, and officials are hopeful that this will become the nucleus for a sizable electrometallurgical and electrochemical industry in Washington and Oregon.

Immediate prospects center around the establishment of an iron and steel industry near Bonneville or somewhere in the Puget Sound area. Both the engineers of the War Department and the Bonneville project of the Department of the Interior have made extensive surveys of the West Coast markets for iron and steel products and the availability of iron ore, coal, fluxing material, and other minerals essential for an iron and steel industry; and they have concluded that it would be economically feasible to operate a small plant there. An iron and steel industry would, of course, involve the production of a number of by-product chemicals and probably also the development of ferro-alloys and of other minerals from Northwest deposits.

The greatest difficulty is the scarcity

—Continued on page 35

N.Y. City Sales Tax Affects Incoming Goods

OPD Washington Bureau
January 29, 1940

The Supreme Court today upheld the application of the New York city sales tax to the delivery of goods to purchasers in New York city on contracts calling for shipment of the goods into the city in interstate commerce.

In three related cases the supreme court held that the interstate commerce clause of the Federal constitution does not prevent the collection of the tax on sales of this character, and remanded the cases to the New York State courts for determination of nonfederal issues. The New York Court of Appeals had held that the Federal constitution prevented collection of the tax since it would be an interference with interstate commerce.

The decisions are considered to be of great significance in that they open

—Continued on page 38

Export Association Sales Ban Found Illegal by F.T.C.

The Federal Trade Commission has found illegal the practice of Pacific Forest Industries, an export association, in prohibiting its members from selling to independent exporters except through the organization. On this finding, the commission has recommended readjustment of the business of the association to conform with the Webb-Pomerene export trade act.

Pacific Forest Industries was organized in 1935, representing eighteen douglas fir plywood mills of the Northwestern States. These mills produce all or nearly all the douglas fir plywood manufactured in the United States.

A hearing was held and an investigation made by the commission into the alleged violations of law, pursuant to a summons issued as provided by section 5 of the export trade act. The commission concluded that certain contracts and by-laws of the association prohibiting its members from selling to independent exporters except through the association, and certain acts and practices of the association in fixing prices and conditions of sales to independent exporters, were in restraint of the export trade of such exporters, whom the commission found to be "domestic competitors" of the association within the meaning of the export trade act.

The following recommendations for the readjustment of the business of Pacific Forest Industries in order that it may maintain its organization and management and conduct its business in accordance with the law, were made by the commission:—

1. That Pacific Forest Industries shall not, by its by-laws, contracts with members or associate members, or otherwise, prohibit its members or associate members from selling plywood directly to American exporters.

2. Section XVI of the present by-laws of Pacific Forest Industries provides that "the several members agree to . . turn over to the association, as and when received, all future orders for export; . . . The members agree not to accept any future export orders, but to transmit and turn the same over to the association." Contracts between Pacific Forest Industries and associate member plywood mills provide that the associate member "will not sell or offer for sale directly or indirectly any plywood for export, except through said association." Said by-laws and contracts, and any other existing by-laws, contracts or agreements to the same effect, should be rescinded, or amended so as to permit members and associate members of said association to accept and fill orders for plywood for export received by them, respectively from American exporters without reference to or approval by the association.

3. That Pacific Forest Industries shall not impose any penalties, forfeitures or charges upon sales of plywood by its members or associate members to American exporters, or fix or prescribe prices, terms or conditions of sales to or by American exporters of plywood produced by its members, or take any other action designed to prevent or restrict such sales.

4. That Pacific Forest Industries cease and desist from advertising in foreign countries that it is the sole export representative of the plywood mills in the United States Pacific Northwest, and from making any similar advertising claims to the effect that United States douglas fir plywood can be purchased in foreign countries only through Pacific Forest Industries or its agents.

The term, "American exporter," was defined, for the purpose of these recommendations, as "a citizen of the United States, a partnership in which the partner or partners owning the principal beneficial interest is or are citizens of the United States, or a corporation domiciled in the United States the majority of the stock of which is owned by citizens of the United States, desiring to purchase plywood for his, their, or its own account for resale in export trade."

Naval Stores Rail Rates Drastically Cut

OPD Washington Bureau
January 29, 1940

Drastic rail freight rate reductions on naval stores from points in Mississippi, Alabama, and Louisiana to Gulf ports are authorized in a decision of the Interstate Commerce Commission, effective February 5. The reductions are authorized to meet truck competition.

Largest reduction under the new rates is that on rail traffic from Hattiesburg, Miss., to Gulfport, Miss. On this run the new rate will be 6 cents per 100 pounds on rosin and other solid naval stores, instead of the present 11 cents, against a truck rate of 10 cents. The new rate on pine oil and other liquid naval stores will be 9 cents per 100 pounds instead of the present 22 cents, against a truck rate of 12 cents. The present minimum is 40,000 pounds on rosin and 30,000 pounds on pine oil. The proposed minimum is 50,000 pounds, with the railroads to absorb switching charges at New Orleans and Mobile.

N.Y. Export Managers To Discuss Navicerts

The Export Managers Club will hold a luncheon meeting in the Hotel Pennsylvania, this city, February 6. The guest speaker will be Leonard H. Leach, consul in charge of the navicert department of the British consulate general in New York. Mr. Leach will explain the workings of the navicert system.

Closing Markets

London Closing Cable

LONDON, Feb. 2, 1940

Quotations on carnauba wax were 330s per hundredweight; African beeswax, 180s per hundredweight.

Texas Oil Proration Stayed

Austin, Tex., Feb. 2, 1940

A temporary injunction to restrain the Texas Railroad Commission from enforcing its February oil proration order in the Gulf-McElroy field in Upton County has been granted in the Federal district court here on petition of the McElroy Ranch Company, Fort Worth, owner of the land on which the field is located. The commission's order cut the quota of the field from 5,279 barrels in January to 2,250 this month. Hearing on the plea for permanent injunction will be held February 12.

Tetrachloride of Tin Off

Anhydrous tetrachloride of tin was ¼c. lower at 22¾c. per pound, reflecting the decline in the Strait metal to the 45c. per pound level. Other tin derivatives were unchanged.

Foreign Trade Rules

Information recently published by the Department of Commerce in foreign tariff and related trade regulations include the following:—

Chemicals:—Netherland quota restrictions on imports on caustic potash, chlorine, sodium hypochlorite, cement of all kinds, glass bottles, glass jars and similar glass containers, have been continued for one year.

Medicinal Soaps:—Colombia has increased the import duty on perfumed and medicinal soaps from 1.00 to 1.70 pesos per gross kilo.

Olive Oil:—The export duty of 200 francs per 100 gross kilos, established on olive oil in France, has been applied in Algeria.

Oilseeds.—The export of sisal and oleaginous seeds from Mozambique have been made subject to standards and government control.

Geatty, Burley Placed On National Lead Board

C. A. Geatty and W. V. Burley were elected directors of the National Lead Company, this city, January 30, filling the vacancies created by the retirement from the board of W. C. Beschorman, former vice-president, and G. W. Thompson form the directorate.

Mr. Geatty, who has been with the company since 1899, was named manager of the Baltimore branch office in 1928 and five years later was promoted to manager of the Atlantic Branch metal division. He succeeded the late L. T. Wilson as manager of metal sales in 1938. Mr. Burley, manager of the St. Louis branch, joined the company as an auditor in 1922. Since then he has been manager of the Mueller Brass Foundry, St. Louis, and comptroller of the Magnus Metal Company. He was named to his present position in July last.

Mr. Beschorman began with the company in 1894. He was named to the board in 1924 and became vice-president three years later, a position from which he resigned in 1938. Dr. Thompson started as a chemist in 1892 and was named to the directorate in 1916.

Mining Engineers to Meet In This City Feb. 12-15

The annual meeting of the American Institute of Mining Engineers will be held in the Engineering Societies building, this city, February 12-15. Approximately 150 technical papers will be read dealing with such subjects as mining and milling methods; nonferrous metallurgy, and mining geology. Special features of the meeting include the awarding of medals for outstanding research in the field of mining during the year. Presentation of the medals will be made at the annual banquet of the institute, to be held in the Waldorf-Astoria February 14.

Chemical Prices Again Higher

Price advances on the tannin group of acids and on quicksilver again raised the average in the markets for heavy and fine chemicals last week. There were more reductions than advances throughout the list, metal groups being prominent.

Transactions slowed up some more, but the volume was still ahead of last year's. Seasonal activities were handicapped by weather conditions.

Prices were advanced on tannic, gallic, and pyrogallic acids, domestic quicksilver, medium grades of gum rosin, gum and wood turpentines, and by-product blanc fixe.

Prices were reduced on lead, red lead, litharge, orange mineral, electrolytic copper, oxide of tin, barium nitrate, imported and domestic casein, copals, T.N. and superfine shellacs, camphor, J2 myrobalans, African wattle barks, imported and domestic dried blood, cottonseed meal in the Southeast, and feeding tankage here.

The REPORTER'S composite index number of prices for heavy and fine chemicals advanced to another new high of 128.7 (100= average at August 1, 1914). In comparison with average prices in 1926 (as 100), the REPORTER'S index number is now 91.1, compared with 88.9 at this time last year and 89.7 in 1938.

Contents of This Issue

News and Statistics

A. & P. Denied Patman Case Review 5
Burch Paint Co. Formed 44
Balto. Paint Club Discusses City Management 44
Barton Resigns National Oil Products Presidency 4
Bloede Scholarship Applications Issued 32
British Ammonia Sulphate Report Omits Nitrogen Data 60
Commerce Bureau Assistants Named 5
Cleveland P.V.L.A. Hears of Paint Course 44
Chemical Developments Linked with Iron Project 3
Chemist Advisory Group Reviews Work 3
Canada Levies Bromides Duty 3
Chain Store Tax Passed in Kentucky 5
Clean Up Campaign Plans Discussed 38
Crude Oil Output 58
Chile Forms Fertilizer Board 60
Coale Heads Thomas Co. 60
Davies Heads Pa. Salt Market Research 4
DuPont Offers New Color 37
Drug, Cosmetic Credit Men Discuss Salesmanship 56
Dangerous Articles Cargo Rules Consolidation Sought 56
Drysalters Meet in Boston 47
Export Association Sales Ban Found Illegal 3
Emulsifier Marketed by Kessler Co. 50
Elk Hills Recapture Upheld 58
Entomology Study Planned 54
F.W.D.A. to Discuss Consumer Movement 5
F.D.A. Appropriation Cut 5
F.T.C. Puzzles Over Drug Ad Warnings 4
Fulton Aniline Formed 35
Fish Oilcake Is Dutyfree 60
Government Buying Without Bids Proposed 4
Gum Importers Name Research Head 44
Geatty, Burley Join National Lead Board 4
Hospital Fund Asked by President 3
'Hartman' Declared Imposter 63
Horvath Laboratories Formed 47
Import Dumping Tax Proposed 5
Lacquer Sales Up 43
Lawson Leaves Harshaw 56
Murray Observes Anniversary 43
Methanol, Synthetic, Output: 1939 56
Manganese Bids Asked by U.S. 56
Mining Engineers to Meet 4
Naval Stores Rail Rates Cut 3
N.Y. Export Managers to Discuss Navicerts 3
N.Y. City Sales Tax Affects Incoming Goods 3
N.P.V.L.A. Southern Zone to Meet 3
Oleomargarin Identity Standards Urged 5
Orbis Perfume Research Headed by Barlow 56
Paint Bill of WPA Shown 44
Paint, Varnish, and Lacquer Sales Up 44
Paint Technicians of South to Meet 3
Plastic, Coldwater Paint, Calcimine Sales: 1939 43
Research Study Attracts Attention 5
R.B.H. Dispersions Offers New Line 43
Rice Heads Phila. Chemical Club 47
Spinning Wheel History Shown 37
Selecting and Training Executives for the Chemical Industry (Landis) 5
Steel Barrel Output: 1939 56
St. Denis-Kuhlmann-St. Clair Agency Formed 35
Textile Chemists Hear Bonnet 37
Tung Oil Arrivals Rise 47
U.S. C. of C. Opposes Federal Oil Control 5

General Features

Advertisers' Index 65
Bids Wanted 63
Chemical Price Trends 4
Classified Advertisements 64
Closing Market Developments 4
Contracts Awarded —
Corporation Earnings —
Dividends Declared —
Editorials 28
Foreign Trade Openings 63
Foreign Trade Rules 4
Industrial Uses of Chemicals 33
Obituaries 60
Petroleum Market Status 57
Petroleum Production 57
Prices Current 7
Scientific, Professional Services 58
Trade News Briefs 64
What You Can Use 56
Where You Can Sell 33

Market Reports

Botanical Drugs, Spices, Gums 53
Coaltar Chemicals 34
Drugs and Fine Chemicals 49
Dyestuffs, Textile and Leather Chemicals 37
Essential Oils and Aromatics 55
Fertilizer Materials 59
Heavy Chemicals 30
Oils, Fats and Waxes 45
Paint, Varnish and Lacquer Materials 39
Petroleum Solvents, Lubricants, and Fuels 57

Shipping Information

Cargo Ship Arrivals —
Charters —
Coastwise Shipments 62
Exports 62
Imports 61
Imports Detained 62

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F.T.C. Puzzles Over Warnings in Drug Ads

OPD Washington Bureau
February 1, 1940

The Federal Trade Commission is moving cautiously in enforcing the section of the Wheeler-Lea false advertising law which makes an advertisement for a food, drug, or cosmetic false if it fails to reveal material facts. A few cease and desist orders have been issued under this section, but the actions to date are not sufficient to point any conclusions as to the commission's attitude on borderline cases.

Talks with F.T.C. staff members indicate that the commission has not decided how far its regulation of advertising will parallel the requirements for labeling laid down by the food, drug, and cosmetic act, and probably will not arrive at any general decision on this matter in the near future. Unlike the Food and Drug Administration, the Federal Trade Commission issues no regulations or interpretations under its act, but proceeds by the case method. Each complaint or cease and desist order is based on the particular facts in the case, and until a large number of such cases have finally been adjudicated it will be impossible to determine just how far the Wheeler-Lea act goes in requiring advertisements to give the same general type of information as is required on labels.

The Wheeler-Lea act declares that

—Continued on page 52

Davies Heads Penna. Salt Market Research Dep't

Richard L. Davies has been appointed manager of the newly established market research department of the Pennsylvania Salt Manufacturing Company. Mr. Davies' headquarters will be at the executive offices of the company in Philadelphia.

© Bachrach

R. L. Davies

This new department has been organized to make studies of the market for products now manufactured by Pennsylvania Salt, or products under contemplation; to launch the sale of new products in line with sales and management policies, and to suggest to the management what should be considered for future production and sale both in the heavy chemical and specialty departments. Market trends and opportunities will likewise be presented to the management for formulation of production and sales policies.

John H. Barton Resigns National Oil Presidency

The resignation of John H. Barton, president of the National Oil Products Company, Harrison, N. J., has been announced by Charles P. Gulick, chairman of the board. Mr. Barton's resignation becomes effective March 1. Election of officers and directors will be held at the annual board meeting March 4. Mr. Barton started with the company twenty years ago as a salesman. Before his election to the presidency in June, 1938, he held numerous other executive posts. Mr. Barton's future plans are indefinite.

F.W.D.A. to Discuss Consumer Movement

An "off-the-record" discussion of "The Consumer Movement" will be the major business of the afternoon session, February 7, of the joint meeting of active (wholesaler) and associate (manufacturer) members of the Federal Wholesale Druggists Association. The agenda of the discussion comprise the following aspects:—

a.—A radio presentation of what the movement is, its leaders, and what their objectives are.

b.—The movement in educational channels.

c.—The importance of the movement in and on government.

d.—The scope and penetration nationally among the consuming public.

The association will hold its midwinter meeting February 6 to 8 in the Hotel Roosevelt, this city. The joint meeting will be held there and will occupy the forenoon and the afternoon of February 7, under the correlated chairmanships of S. C. James, of the Ellicott Drug Company, Buffalo, president of the association, and William D. Barry, of Mallinckrodt Chemical Works, this city, chairman of the associate membership group. It will start at 9:30 a.m. .

At the forenoon session of the joint meeting a general discussion of "The Federal Food, Drug, and Cosmetic Act" will be opened by Carson P. Frailey, executive vice-president of the American Drug Manufacturers Association. The other two days of the meeting will be devoted to closed sessions of the active members.

Import Dumping Tax Proposed On Foreign Exchange Basis

OPD Washington Bureau
January 31, 1940

Representative Carl Hinshaw, of California, today introduced a bill (H. R. 8,211) to impose an "exchange dumping tax" on imports to be based on the difference between the value of the currency of the country of export at the time of importation and the value of that currency on December 31, 1934.

In a statement to the house, Representative Hinshaw pointed out that since the negotiation of trade agreements with European countries the currency of many of these nations has depreciated which gives imports from those countries a premium and makes it more difficult to export American goods to them.

A.&P. Denied Review Of Patman Act Case

OPD Washington Bureau
January 30, 1940

The Supreme Court of the United States denied yesterday the petition of the Great Atlantic & Pacific Tea Company for a rehearing of the supreme court's denial of the company's petition for a writ of certiorari to review the judgment of the United States Circuit Court of Appeals for the Third Circuit, affirming the Federal Trade Commission's order against the A. & P. company, which directed it to cease and desist from accepting allowances and discounts in lieu of brokerage, in violation of section 2 (c) of the Robinson-Patman act. The petition for certiorari in the case by the Great Atlantic & Pafific Tea Company was denied by the Supreme Court January 2.

The commission's order prohibited the Great Atlantic & Pacific Tea Company from purchasing commodities at so-called "net prices" which involved a price concession in lieu of brokerage; from accepting so-called "quantity discounts" and other types of discounts granted in lieu of brokerage; and from accepting discounts and payments of all kinds representing in whole or in part brokerage on its own purchases.

Commerce Bureau Assistants Named

OPD Washington Bureau
February 1, 1940

President Roosevelt today named as assistant directors of the Bureau of Foreign and Domestic Commerce Grosvenor Jones and Bruce Berckmans. Mr. Jones has been in the bureau for many years as chief of the Finance Division, and Mr. Berckmans is a former business man who has been serving as a special assistant to the Secretary of Commerce since last Summer.

Chain Store Tax Passed By Kentucky Legislature

A chain store tax measure was today passed by the Kentucky State Legislature. The measure imposes a tax ranging from $25 to $200 on chain units, based on the total number of stores in the chain, regardless of location. The new measure replaces a statute invalidated by the State's highest court a few months ago.

Research Study and Promotion Attract Variety of Attention

The correlation of research and industrial and commercial policies and practices apparently has taken on such a broad interest that at least two agencies are launching programs for its promotion. These undertakings are enlisting governmental, as well as business interest and participation.

The Department of Commerce announced January 30 that it was joining the National Resources Planning Board in a study of research by business. This move brought together a number of representatives of public and private enterprise in an advisory committee appointed by the Social Science Research Council, with the following members:—

Edwin G. Nourse, chairman; Howard Coonley, chairman of the board of the Walworth Company; R. R. Deupree, president of the Procter & Gamble Company; M. B. Folsom, treasurer of the Eastman Kodak Company; Clarence Francis, president of the General Foods Corporation; Morris E. Leeds, president of the Leeds & Northrup Company; R. Douglas Stuart, vice-president of the Quaker Oats Company; Walter C. Teagle, chairman of the board of the Standard Oil Company of New Jersey; Willard L. Thorp, economic adviser to the Secretary of Commerce and director of economic research for Dun & Bradstreet; and Edwin B. Wilson, chairman of the science committee of the National Resources Planning Board.

On Another Track

Several days earlier, January 26, Maurice Holland, director of the division of engineering and industrial research of the National Research Council, as chairman of the recently formed science committee, conducted a symposium in the Engineers club, this city, the discussion having to do with "the problem of gearing America's industries more directly to the nation's research laboratories, of cutting down the existing time lag between the discovery of a new process and its general adoption in industry."

Mr. Holland's committee heard a review of the program and progress of the Research Advisory Service, which is sponsored by ten banks as a voluntary clearing house for technical in-

—Continued on page 60

Oleomargarin Standard Of Identity Proposed

OPD Washington Bureau
January 29, 1940

A proposed definition and standard of identity for oleomargarin has been submitted to the food standards committee of the Department of Agriculture by Dr. J. S. Abbott, of the Institute of Margarine Manufacturers, acting for the industry.

The proposed definition was made public at an informal hearing at the Department of Agriculture, where its provisions were discussed by members of the industry and of the committee. It is expected that the committee and the Secretary of Agriculture will now formulate their own proposals and hold a formal hearing to permit the industry to submit its views on such recommendations as they may make.

The industry's proposed definition reads as follows:—

Oleomargarin, also known as margarine, is a food with a plastic, semi-solid consistency, prepared from one or more wholesome edible fats or oils churned, emulsified, or mixed with milk, skim milk or other milk products, sweet or ripened, water, or a mixture thereof, with or without salt, with or without harmless preservative, or preservatives, with or without edible emulsifying agent, or agents, with or without approved color, with or without flavoring, and with or without vitamin or vitamins or vitamin concentrate or concentrates. Oleomargarin contains not less than 1 percentum of moisture, and not less than eighty percentum by weight of fat, all tolerances allowed for, and in the case of oleomargarine fortified with vitamin A, contains not less than 7,500 U.S.P. units of vitamin A per pound. This definition and standard of identity shall not apply to puff-pastry shortening not churned or emulsified in milk or cream, and having a melting point of one hundred and eighteen degrees Fahrenheit or more, nor to any of the following containing condiments and spices: salad dressings, mayonnaise dressings or mayonnaise products, nor to liquid emulsion, pharmaceutical preparations, oil meals, liquid preservatives, illuminating oils,

—Continued on page 47

U.S. C.of C. Opposes Federal Oil Control

OPD Washington Bureau
January 30, 1940

Opposition to pending legislation for Federal control of oil production was voted today by the board of directors of the Chamber of Commerce of the United States.

The board also approved a report of its natural resources committee proposing the creation of a new Federal agency to co-ordinate plans and projects for the development of natural resources. The proposed agency would not be a continuation of the National Resources Planning Board, but it would exercise certain functions of that agency. Its activities would deal solely with natural resources of lands, waters, forests, and minerals, particularly in the West, and it would render advisory assistance to the States in reaching interstate compacts. Its object would be co-ordination of Federal activities that involve the conservation and use of natural resources.

As to oil legislation, the resolution approved efforts of individual States to control petroleum resources by means of interstate compacts and State legislation, and declared that Federal control would interfere with the furtherance of State efforts and compact plans.

F.D.A. Appropriation Cut by House Unit

OPD Washington Bureau
January 30, 1940

The appropriation for the Food and Drug Administration for the 1941 fiscal year, included in the Department of Agriculture appropriation bill reported to the house today, is $216,414 below the amount estimated in the budget, and is only $2,106 above the appropriation for the current fiscal year.

In a move for government economy, the house appropriations committee drastically cut practically all items of the Department of Agriculture bill and refused every increase estimated for the Food and Drug Administration with the exception of an increase of $66,000 for work on medicinal drugs. In addition, the committee entirely eliminated an estimate of $30,214 for enforcement of the tea importation act with the statement, "The committee believes this activity meets no imperative public need and has, therefore, eliminated the entire item." Last year in writing the Department of Agriculture bill the appropriations committee omitted an item for the tea importation act through a misunderstanding, but through senate action an appropriation of $30,094 was made for the current fiscal year.

The total appropriation for the Food and Drug Administration this year is $2,741,138; and the budget estimated $2,959,658 for 1941, but the house committee approved only $2,743,244. The amount in the bill for enforcement of the food, drugs, and cosmetic act is $2,320,580, which is only $32,200 in excess of the appropriation for the current year, but expenditures of $33,800 are being transferred to the office of the solicitor, making a net increase of $66,000. The budget carried an increase of $249,400 for enforcement of the food and drugs act, divided as follows:—$66,000 for work on medicinal drugs; $28,000 for inspection work on vitamin preparations; $66,000 for enforcement work on cosmetics; $9,400 for administrative promotions.

For all other items in the Food and Drug Administration appropriation, the committee rejected all increases and approved amounts identical with the funds available this year. The increases rejected were $600 for administrative promotions; $100 for enforcement of the naval stores act; $840 for enforcement of the insecticide act; and $1,260 for enforcement of the seafood inspection act.

Selecting and Training Executives For the Chemical Industry

By Dr. W. S. Landis
Vice-President of the American Cyanamid Company

Address given before the American Institute of Chemists, January 19, 1940, in New York

(*Continued from January 29 issue*)

Handicaps of Groups

But business is always in the unknown. It thrives on discoveries, on new products, new uses, new services, and has to go out and develop them to live and expand. Certain professional groups are enormously handicapped in our industrial executive field. They have no background of industrial education and experience; their training and education have a reverse spin, which is a great handicap to progress in our arena.

Remember we are referring here to groups not to individuals. The individual may always possess the capability, and particularly the industry, to overcome these obstacles of early training, and by long hours and assiduous application he may fit himself to such a position as is here discussed. Many a good bricklayer has been spoiled by trying to make an engineer out of him—and the reverse can just as readily happen. Anyway, we are idealists and we are dealing with this argument from such a point of view. It is not just "getting by" that I am treating here, but an attempt to arrive at the best and most efficient solution. I am striving for the perfect ideal, not a mere passing mark. The run of pile may show a six-to-four record and survive, but how much better would be an eight-to-two or a nine-to-one!

Every business failure, every capital loss stirs up our Marxists. They do not recognize that catastrophe, *force majeure*, vicious legislation, punitive taxation, over which business has little or no control may be a fundamental cause of some venture going sour. But has management done all possible to make for highest efficiency; has it exerted effective influence to mitigate the effects of some of the extraneous troubles just enumerated? I am sorry to say I can find inefficiency, and some can be traced to inadequately trained personnel. We can still make it more efficient by giving better training and education to those who will take it over. And where should we look for our executives?

Logical Source of Executives

There is only one logical source of any executive material in any institution. That is through promotion based on merit and performance. Every well - managed corporation should possess a capable subordinate in each of its units, ready to perform in the position above himself. And the corporation should lean over back-

—Continued on page 63

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Current Market Quotations

February 2, 1940

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When not otherwise indicated, quotations are f.o.b. New York prices on large lots. Price changes and trends are noted in the market reports on other pages, with other informative comment. The locations of the several reports are indicated on page 4.

RECEIVED FEB 6 1940 U.S. PATENT OFFICE

A

Acacia (see Gum, Arabic)
Acetal, dms., dlvd.....lb. .75 - 1.00
Acetaldehyde, 99%, dms., 55 & 110 gls., works..lb. .11 - —
5 & 10 gls., works.....lb. .14 - —
Acetamide, CP, kgs., 5,000 lbs., a year, works..lb. .36 - —
200-lb. lots, works.....lb. .38 - —
100-lb. lots, works.....lb. .55 - —
5 to 50-lb. lots, works....lb. .70 - —
Acetanilide, tech., bbls.....lb. .22 - —
95%, bbls.....lb. .29 - —
USP, cryst., bbls., 2,000-lb. lots, lb. .32 - —
smaller lots.....lb. .33 - —
dms., 25-lb. lots.....lb. .38 - —
kgs., 2,000-lb. lots.....lb. .33 - —
smaller lots.....lb. .34 - —
powd., bbls., 2,000-lb. lots..lb. .30 - —
smaller lots.....lb. .31 - —
dms., 25-lb. lots.....lb. .36 - —
kgs., 2,000-lb. lots.....lb. .31 - —
smaller lots.....lb. .32 - —
Acetoacetanilide, dms.....lb. .47 - .65
Acetone, CP, dms., c.l., dlvd..lb. .07¼- —
l.c.l., dms., dlvd.....lb. .07¾- —
tanks, dlvd.....lb. .05¾- —
Methyl (see M).
Acetophenone, bots.....lb. 1.30 - 1.45
cns., 25 lbs.....lb. 1.15 - 1.25
dms., 100 lbs.....lb. 1.05 - —
Acetophenetidin, bbls., kgs., 1,000 lbs..lb. 1.00 - —
50 lbs.....lb. 1.02 - —
25 lbs.....lb. 1.05 - —
Acid, abietic, dms., c.l., f.o.b. all points in U. S. E. of and including Kans., Neb., N. D., Okla., S. D., Texas E. of Austin and Brownsville..lb. .08¾- —
l.c.l., same terms.....lb. .09 - —
Acetic, com'l or redist., 28%, bbls..100 lbs. 2.23 - 2.48
cbys.....100 lbs. 2.73 - 2.98
56%, bbls.....100 lbs. 4.15 - 4.40
cbys.....100 lbs. 4.65 - 4.90
70%, bbls.....100 lbs. 5.17 - 5.42
cbys.....100 lbs. 5.67 - 5.92
80%, bbls.....100 lbs. 5.89 - 6.14
cbys.....100 lbs. 6.39 - 6.64
glacial, nat., CP, cbys.100 lbs.14.00 - —
99.5%, bbls.....100 lbs. 7.62 - 7.87
cbys.....100 lbs. 8.12 - 8.37
tanks .....100 lbs. 5.00 - —
USP, bbls.....100 lbs.10.25 -10.50
cbys.....100 lbs.10.75 -11.00
synth., 99.5%, al. dms., 100 lbs. 8.43 - 8.68
cbys.....100 lbs. 8.93 - 9.18
USP, al. dms.....100 lbs.10.25 -10.50
cbys.....100 lbs.10.75 -11.00
pure, 30%, bbls.....100 lbs. 3.28 - 3.53
cbys.....100 lbs. 3.78 - 4.03
36%, bbls.....100 lbs. 3.66 - 3.91
cbys.....100 lbs. 4.16 - 4.41
60%, bbls.....100 lbs. 6.15 - 6.40
cbys.....100 lbs. 6.65 - 6.90
80%, bbls.....100 lbs. 7.68 - 7.93
cbys.....100 lbs. 8.18 - 8.43

Acetic acid price differentials above are for c.l. and l.c.l. quantities; the prices apply dlv'd at destination in the following States: Conn., Dela., D. of C., Md., Mass., N. J., N. Y., N. and S. Car., R. I., Penna., and Va. For all other States except Wash., Ore., and Calif., prices are f.o.b. works, frt. equalized.

Acetic, anhydride, dms., c.l., frt. alld..lb. .10¼- .11½
l.c.l., dms., frt. alld.....lb. .12 - .13
Acetylsalicylic, special, USP, fine cryst., gran., 200-lb. bbls..lb. .45 - —
standard, USP, fine cryst., gran., 20 or 40 mesh, 200-lb. bbls..lb. .40 - —
powd., 80 mesh, 200-lb. bbls..lb. .40 - —
Anthranilic, refd., bbls.....lb. 1.15 - 1.20
tech., bbls.....lb. .75 - —
Arsenous, tech. (see Arsenic, White).
USP, powd., dms., kegs....lb. .22 - .25
Ascorbic, bots., dms.....oz. 2.75 - 3.00
Battery, cbys., c.l., E. works, 100 lbs. 1.60 - —
l.c.l., 25 or more, E. works, 100 lbs. 1.85 - —
10-25, E. works....100 lbs. 1.95 - —
1-9, E. works.....100 lbs. 2.55 - —
Benzoic, tech., bbls., 4,000 lbs. or more..lb. .43 - —
1,000 to 3,900 lbs.....lb. .44 - —
900 lbs. or less.....lb. .47 - —
USP, bbls., 4,000 lbs. or more, lb. .54 - —
1,000 to 3,900 lbs.....lb. .55 - —
900 lbs. or less.....lb. .58 - .59
dms., 4,000 lbs. or more..lb. .55 - .56
1,000 to 3,900 lbs.....lb. .56 - .57
900 lbs. or less.....lb. .59 - .60
Boric, tech., 99.5%, gran., bbls., contracts, 80 tons, dlvd., ton.106.00 - —
c.l., dlvd.....ton.111.00 - —
l.c.l., ex whse.....ton.118.00 -128.00
sks., contracts, 80 tons, dlvd..ton.96.00 - —
c.l., dlvd.....ton.101.00 - —
l.c.l., ex whse.....ton.108.00 -118.00
powd., bbls., contracts, 80 tons, dlvd..ton.111.00 - —
c.l., dlvd.....ton.116.00 - —
l.c.l., dlvd.....ton.123.00 -133.00
sks., contracts, 80 tons, dlvd..ton.101.00 - —
c.l., dlvd.....ton.106.00 - —
l.c.l., ex whse.....ton.113.00 -123.00
USP, $25 per ton higher.

Acid, butyric, 99%, dms., c.l., S. Charleston, W. Va..lb. .22 - —
l.c.l., same basis.....lb. .23 - —
tanks, same basis.....lb. .21 - —
Broenner's, bbls.....lb. 1.11 - —
Camphoric, cns.....lb. 7.00 - —
Capric, dms.....lb. .14 - .14½
Caporic, dms., works.....lb. .35 - .40
Carbolic (see Phenol).
Castor oil, split, dms.....lb. .17 - .17½
Chlorosulphonic, dms., c.l., works..lb. .0350- —
5-drum lots, works.....lb. .04 - —
single drum.....lb. .05 - —
tanks, works.....lb. .03 - —
Chromic, 99%, dms., c.l., dlvd. N. Y..lb. .15½- —
l.c.l., 5 tons, dlvd. N. Y. lb. .15¾- —
dms., smaller quantities, dlvd. N. Y..lb. .16¼- .17¼
Cinnamic, refd., bots.....lb. 2.85 - 3.25
Citric, cryst., gran., bbls., car lots..lb. .20 - —
10,000-lb. lots, one shipt. lb. .20½- —
smaller lots.....lb. .21 - —
anhyd., gran., dms., 10,000 lbs., 1 shipt..lb. .23 - —
smaller lots.....lb. .23½- —

Citric acid quotations on powder are ½c. higher than on granular. Keg packing is ½c. higher than barrels. Prices are f.o.b. N. Y. Chicago and St. Louis deliveries are ½c. higher than N. Y.

Cleve's, bbls.....lb. .57 - —
Coconut oil, dms.....lb. .10¾- .11¼
Corn, dist., dms.....lb. .10 - .10¾
Cottonseed oil, dist., dms....lb. .09½- .10
tanks .....lb. .09 - —
Cresylic (coaltar) high-boil 50%, 210°-215°, dms., c.l., works, frt. equld..gal. .68 - —
l.c.l., same basis.....gal. .70 - —
special blends (50%, 210°-215°), dms., c.l., works, frt. equld..gal. .71 - —
l.c.l., same basis....gal. .73 - —
low-boil (50%, 204°-206°), dms., c.l., works, frt. equld..gal. .68 - —
l.c.l., same basis.....gal. .70 - —
special blends (50%, 204°-206°), dms., c.l., works, frt. equld..gal. .71 - —
l.c.l., same basis.....gal. .73 - —
imported, pale, dms...gal. .70 - .75
Cresylic (petroleum), high-boil (240°-300°), non-return dms., c.l., works, East. U.S..gal. .40 - —
l.c.l., same basis....gal. .41 - .43
tanks, dlvd., East U.S.gal. .389 - —
medium-boil (222°-249°), non-return dms., c.l., works, East. U.S..gal. .46 - —
l.c.l., same basis....gal. .47 - .48
tanks, dlvd. East U.S..gal. .448 - —
Crotonic, bbls., dlvd.....lb. .21 - —
smaller containers, dlvd....lb. .50 - —
Diethylbarbituric (see Barbital).
Formic, dom., 90%, cbys., f.o.b. works, c.l..lb. .10½- —
l.c.l., 25 and over..lb. .11 - —
1-24 .....lb. .11½- —
Fumaric, bbls.....lb. .75 - —
Gallic, tech., bbls.....lb. .75 - .78
N. F., VI, bbls., 200 lbs., 5 or more..lb. .92 - —
single bbls.....lb. .95 - —
fib. dms., 25 lbs.....lb. 1.01 - —
Gamma, bbls.....lb. .85 - —
Gluconic, tech., 50%, bbls., 500 lbs..lb. .20 - —
H, bbls.....lb. .45 - —
Hydriodic, 47%, bots.....lb. 2.30 - —
5-lb. bots.....lb. 2.51 - —
57%, bots.....lb. 2.75 - 2.90
Hydrobromic, 10% dilut., USP, lb. .20 - .21
pure, 34% conct., cbys.....lb. .42 - .44
Hydrochloric (see Muriatic).
Hydrocyanic, cyls., works....lb. .80 - 1.00
Hydrofluoric, 30%, bbls.....lb. .06 - .06½
lead cbys.....lb. .08 - .08½
48%, lead cbys.....lb. .10½- .11
52%, lead cbys.....lb. .11½- .12
60%, lead cbys.....lb. .14 - .14½
Hydrofluosilic, 30-35%, 420 lb. bbls..lb. .09 - .09¼
Hypophosphorus, USP, 50%, djns..lb. .75 - .80
Lactic, tech., dark, 22%, bbls., c.l., works..100 lbs. 2.50 - —
l.c.l., bbls., works..100 lbs. 2.75 - —
cbys., works....100 lbs. 3.75 - —
44%, bbls., c.l., works, 100 lbs. 5.50 - —
l.c.l., bbls., works..100 lbs. 5.75 - —
cbys., works....100 lbs. 6.75 - —
light, 22%, bbls., c.l., works, 100 lbs. 2.50 - —
l.c.l., bbls., works..100 lbs. 2.75 - —
cbys., works....100 lbs. 4.75 - —
44%, bbls., c.l., works, 100 lbs. 6.50 - —
l.c.l., bbls., works..100 lbs. 6.75 - —
cbys., works....100 lbs. 7.75 - —
50%, edible, 20 and over, bbls., cbys..lb. .10½- .11½
plastic grade.....lb. .12¼- .13½
5 to 19, edible, bbls., cbys., lb. .11 - .12
plastic grade.....lb. .12¾- .13¾
1 to 4, edible, bbls., cbys., lb. .11¼- .12¼
plastic grade.....lb. .13¼- .14½
80%, 5 and over, bbls., cbys..lb. .21 - .22
1 to 4 bbls., cbys.....lb. .21½- .22½
USP, XI, 85%, cbys.....lb. .43 - .45
USP, VIII, 75%, cbys.....lb. .41 - .43
Lauric, dist., tech., dms....lb. .14 - .14½
Laurent's, bbls.....lb. .45 - —

Acid, linseed oil, dark, dms..lb. .13 - .13½
light, dms.....lb. .14 - .14½
extra white, dist., dms...lb. .14½- .15
Maleic, powd., dms.....lb. .30 - —
anhydride, dms., c.l.....lb. .25 - —
dms., l.c.l.....lb. .26 - —
Malic, powd., kegs.....lb. .47 - —
Mandelic, bots.....lb. 2.30 - —
dms., 1,000 lbs.....lb. 1.90 - —
smaller lots.....lb. 2.15 - —
Mixed, tanks, nitric unit....lb. .05 - .06
sulphuric unit.....lb. .0085-.009
Molybdic, kgs., works.....lb. .95 - 1.10
Monochloroacetic, tech., bbls... lb. .15 - .18
Monosulphonic, bbls.....lb. 1.50 - —
Muriatic, 18°, cbys., c.l., E. works..100 lbs. 1.50 - —
l.c.l., 25 and over, E. works..100 lbs. 1.75 - —
10 to 24, works...100 lbs. 1.85 - —
1 to 9, works....100 lbs. 2.45 - —
tanks, works.....100 lbs. 1.05 - —
20°, cbys., c.l., E. works, 100 lbs. 1.75 - —
l.c.l., 25 and over, works, 100 lbs. 2.00 - —
10 to 24, works...100 lbs. 2.10 - —
1 to 9, works....100 lbs. 2.70 - —
tanks, works.....100 lbs. 1.15 - —
22°, cbys., c.l., E. works, 100 lbs. 2.25 - —
l.c.l., 25 and over, works, 100 lbs. 2.50 - —
10 to 24, works...100 lbs. 2.60 - —
1 to 9, works....100 lbs. 3.20 - —
tanks, works.....100 lbs. 1.65 - —
cryst., gran., bbls., car lots.lb. .21 - —
6-lb. bots.....lb. .18½- —
consumers, cbys.....lb. .08 - —
6-lb. bots.....lb. .20 - —
Myristic, dist., dms.....lb. .18¼- .18¾
Naphthenic, dom., acidity, 160, dms., c.l., works..lb. .11 Nom.
l.c.l., dms., works.....lb. .11½ Nom.
tanks, works.....lb. .10½ Nom.
200-220, dms., c.l., works...lb. .09½ Nom.
l.c.l., dms., works.....lb. .10 Nom.
tanks, works.....lb. .09 Nom.
240, dms., c.l., works.....lb. .14 Nom.
l.c.l., dms., works.....lb. .14½ Nom.
tanks, works.....lb. No prices
Nicotinic, 25-lb. cns.....lb.15.00 -15.50
5-lb. bots.....lb.16.50 - —
1-lb. bots.....lb.17.00 - —
Nitric, 36°, cbys., c.l., E. works, 100 lbs. 5.00 - —
l.c.l., 25 and over, E. works..100 lbs. 5.25 - —
10 to 24, works...100 lbs. 5.35 - —
1 to 9, works....100 lbs. 5.95 - —
38°, cbys., c.l., E. works, 100 lbs. 5.50 - —
Western works...100 lbs. 5.75 - —
l.c.l., 25 and over, E. works..100 lbs. 5.75 - —
10 to 24, works...100 lbs. 5.85 - —
1 to 9, works....100 lbs. 6.45 - —
40°, cbys., c.l., E. works, 100 lbs. 6.00 - —
l.c.l., 25 and over, E. works..100 lbs. 6.25 - —
10 to 24, works...100 lbs. 6.35 - —
1 to 9, works....100 lbs. 6.95 - —
42°, cbys., c.l., E. works, 100 lbs. 6.50 - —
l.c.l., 25 and over, works, 100 lbs. 6.75 - —
10 to 24, works...100 lbs. 6.85 - —
1 to 9, works....100 lbs. 7.45 - —
C.P., USP, dealers, cbys...lb. .11½- —
7-lb. bots.....lb. .22½- —
consumers, cbys.....lb. .13 - —
7-lb. bots.....lb. .24 - —
Oleum (see sulphuric fuming).
Oxalic, dom., bbls., c.l., works, lb. .10¾- —
10,000 lbs. and over....lb. .11 - —
smaller quantities.....lb. .12 - .14
Palm oil, white, dist., dms..lb. .08 - .08½
tanks .....lb. .07½- —
Phenylacetic, bots.....lb. 1.75 - 3.00
Phosphoric, ortho, tech., 50%, cbys..lb. .06 - —
75%, cbys.....lb. .07½- —
USP, 85%, s. g. 1.710, cbys., 180 lbs..lb. .12 - —
50%, s. g. 1.347, cbys., 70 lbs..lb. .12 - —
djns., 25 lbs.....lb. .15 - —
10%, dilut., cbys., djns...lb. .07 - .07½
Picramic, kgs.....lb. .65 - .70
Picric, bbls.....lb. .35 - —
Propionic ref., cbys., works..lb. .25 Nom.
dms., works.....lb. .22 Nom.
tech., cbys., works.....lb. .20 Nom.
dms., works.....lb. .16 Nom.
Pyrogallic, tech., lump, powd., bbls..lb. 1.05 Nom.
cns. .....lb. 1.10 Nom.
USP, cryst., cns.....lb. 1.55 - —
resubl., cns.....lb. 2.10 - —
Pyroligneous, bbls., dlvd. E.gal. .25 - —
Ricinoleic, com'l, split (see Acid, castor oil, split).
tech., dms., c.l., works....lb. .27 - —
l.c.l., dms., works.....lb. .28 - .33
Salicylic, tech., bbls.....lb. .33 - —
USP, bbls.....lb. .35 - .40
Sebacic, C.P., bbls., works..lb. No prices
tech., bbls., works.....lb. No prices
Soybean oil, dist., dms.....lb. .09¼- .09¾
Stearic, distl., double pressed, bgs., dlvd..lb. .12 - .13
single pressed, bgs., dlvd..lb. .11½- .12½
triple pressed, bgs., dlvd..lb. .14¾- .15¾
saponif., double pressed, bgs., dlvd..lb. .12¾- .13¾
triple pressed, bgs., dlvd..lb. .15½- .16½
Succinic, bbls.....lb. .75 - —
Sulphanilic, CP, bots., works.lb. 1.60 - 1.68
tech., dms., works.....lb. .17 - —
Sulphonaphthenic, dms.. ...lb. .04 - .10

Acacia—Alcohol

Acid, sulphuric, 60°, cbys., c.l., E. works..100 lbs. 1.25 - —
l.c.l., 25 and over, works, 100 lbs. 1.50 - —
10 to 24, works..100 lbs. 1.60 - —
1 to 9 works..100 lbs. 2.20 - —
tanks, E. works.....ton.13.00 - —
66°, cbys., c.l., E. Works..... 100 lbs. 1.50 - —
l.c.l., 25 and over, works, 100 lbs. 1.75 - —
10 to 24, works..100 lbs. 1.85 - —
1 to 9, works..100 lbs. 2.45 - —
tanks, E. works.....ton.16.50 - —
98°, tanks, works.....ton.17.50 - —
CP, USP, dealers, cbys....lb. .06¼- —
9-lb. bots.....lb. .16½- —
consumers, cbys.....lb. .08 - —
9-lb. bots.....lb. .18 - —
fuming, 20%, tanks, E. works, ton.18.50 - —
65%, tanks, E. works....ton.36.00 - —
Tannic, tech., bbls., dms....lb. .44 - .46
USP, fluffy, bbls., 1,000-lb. lots..lb. .88 Nom.
100-lb. lots.....lb. .90 Nom.
25-lb. lots.....lb. .93 Nom.
powd., bbls., 1,000 lbs.....lb. .78 Nom.
smaller lots.....lb. .80 Nom.
Tartaric, USP, dom., cryst., gran., powd., bbls., 10,000 lbs. or more, one shipment, lb. .35¼- —
smaller quantities.....lb. .35¾- —
kgs. .....lb. .36¼- —
Tobias, bbls.....lb. .55 - .60
Trichloroacetic, bots.....lb. 2.00 - 2.50
Tungsten, CP, kgs., wks....lb. No prices
Chem. grade, kgs., wks....lb. No prices
Aconite leaves, bls.....lb. .28 - .30
Root, bls.....lb. .38 - .40
Aconitine, amorph., bots.....oz.23.00 - —
vls. .....gr. 1.00 - —
cryst., bots.....oz.42.00 - —
vls. .....gr. 1.60 - —
Adeps lanae, anhyd., dms.....lb. .30 - .31
hyd., dms.....lb. .29 - .30
Agar 1, bls.....lb. 1.50 Nom.
3, bls.....lb. No prices
Agaric, white, bls.....lb. No prices
Albumen, blood, dark, flake, bgs., f.o.b. Chicago, frt. alld..lb. .13 - —
powd., grade A, same basis, ton lots..lb. .15 - —
smaller lots, same basis..lb. .18 - —
light, dom., flake, dms., f.o.b. Chicago, frt. alld..lb. .55 - .62
import, bgs.....lb. .60 Nom.
egg, ed., dom., cryst., bbls..lb. .60 - .62
dom., powd., dms., bbls., lb. .65 - .67
import, cs.....lb. .62 - —
Alcohol, amyl (see also Fusel oil, refd.), ex pentane dms., c.l., frt.alld..lb. .111 - —
l.c.l., frt. alld.....lb. .121 - —
tanks, frt. alld.....lb. .101 - —
Benzyl, cns.....lb. .68 - —
drums .....lb. .63 - —
Butyl, normal, cns., works..lb. .14½- .16½
dms., c.l., frt. alld.....lb. .10 - —
l.c.l., frt. alld.....lb. .10½- —
tanks, frt. alld.....lb. .09 - —
tankwagon, frt. alld.....lb. .09½- —
Contract prices 1c. per gal. less.
Secondary, dms., c.l., frt. paid E. of Miss. R..lb. .07½- —
l.c.l., same terms.....lb. .08 - —
tanks, same terms.....lb. .06½- —
tertiary, denaturing, c.l., dms., lb. .12½- —
l.c.l., dms.....lb. .13 - —
tanks .....lb. .11½- —
Capryl, pure, dms., works...lb. 2.50 - —
tech., dms., works.....lb. .85 - —
Cetyl, dom., CP, fiber ctns., 1,000 lbs..lb. 1.50 - —
500 lbs.....lb. 1.70 - —
100 lbs.....lb. 1.80 - —
25 lbs.....lb. 1.90 - —
5 lbs.....lb. 2.00 - —
com'l, dms.....lb. .95 - —
import, 85%, 100-lb. dms...lb. .55 - —
5 to 10 lbs.....lb. .75 - —
com'l, 350-lb. dms.....lb. .45 - —
Cinnamic, bots.....lb. 2.00 - 2.50
Denatured, CD14, dms., c.l., works, E..gal. .31½- —
l.c.l., works, dms.....gal. .36½- —
tanks, E., works.....gal. .25½- —

Prices for territories other than E. of Rockies are 4c. per gal., in tanks, and 5c. per gal. in dms., higher. Tankcar sales require written authorization by Alcohol Tax Unit.

SDI, 190 pf., bbls., c.l., E. works..gal. .29½- —
19 bbls., E. works...gal. .31½- —
1 to 18 bbls., E. works, gal. .34½- —
dms., c.l., E. works....gal. .28½- —
19 dms., E. works....gal. .30½- —
1 to 18 dms.....gal. .33½- —
tanks, E. works.....gal. .22½- —
Anhydrous 3c. per gal. higher.
SD-2B., dms., c.l., works, E. gal. .26½- —
19 dms., works, E...gal. .28½- —
1 to 18 dms., works, E. gal. .31½- —
tanks, E., works.....gal. .20½- —
SD23-G, works, E., c.l., dms., gal. .32½- —
19 dms.....gal. .34½- —
1 to 18 dms.....gal. .37½- —
tanks .....gal. .26½- —

Prices for territories other than E. of Rockies are 4c. per gal., in tanks, and 5c. per gal., in dms., higher.

Alcohol—Ammo. Stearate

Alcohol, special solvent, dms., c.l., E. works..gal. .29½- —
20 dms., E. works..gal. .31½- —
1 to 10 dms.....gal. .34½- —
tanks, E. works.....gal. .23½- —
Tankcar sales require written authorization by Alcohol Tax Unit.
Diacetone, acetone-free, dms., c.l.,dlvd..lb. .12 - —
l.c.l., dlvd.....lb. .12½- —
cns., works.....lb. .16½- .18½
tanks, dlvd.....lb. .11 - —
tech., dms., c.l., dlvd.....lb. .11½- —
l.c.l., dlvd.....lb. .12 - —
cns., works.....lb. .16 - .18
tanks, dlvd.....lb. .10½- —
Ethyl, 190 pf., ex molasses, bbls., c.l..gal. 4.55 - —
19 bbls. .....gal. 4.58½- —
1 to 18 bbls.....gal. 4.61½- —
dms., c.l.....gal. 4.54 - —
19 dms. .....gal. 4.57½- —
1 to 18 dms.....gal. 4.60½- —
tanks .....gal. 4.48 - —
absolute, dms., c.l.....gal. 4.81½- —
19 dms. .....gal. 4.85 - —
1 to 18 dms.....gal. 4.88 - —
Grain alcohol 25c. gal. higher.
Furfuryl, tech., cns., works..lb. .35 - —
dms., c.l., 33,000 lbs., works, lb. .20 - —
l.c.l., 500 lbs. and more, works..lb. .25 - —
Isoamyl, primary, dms., l.c.l., dlvd..lb. .27 - —
cans, works.....lb. .32 - —
Isobutyl, refd., dms., works..lb. .0690- —
tanks, same terms.....lb. .0590- —
Isopropyl, refd., 91%, dms., 5 gal., f.o.b., dest..gal. .65 - —
Alcohol, isopropyl, refd., 91%, 55 gal., c.l., same basis...gal. .33½- —
l.c.l., same basis....gal. .38½- —
tanks, frt., alld.....gal. .28½- —
99%, dms., 5 gal., same basis, gal. .65 - —
55 gal., c.l., same basis, gal. .36 - —
l.c.l., same basis....gal. .41 - —
tanks, same basis.....gal. .31 - —
Methyl (see Methanol).
Phenylethyl, bots., cans.....lb. 2.50 - 3.35
Propyl, normal, dms., works, gal. .70 - —
Tetrahydrofurfuryl, dms., contract, f.o.b. Waverly, N. Y., lb. .44 - —
450 lb. lots, same basis....lb. .50 - —
cas., f.o.b., Cedar Rapids, Ia. lb. .55 - —
Aldehol, denat., grade, dms., tanks, works..gal. .70 - .72
Aldehyde bisulphite, bbls., dlvd., lb. .17 - —
smaller containers.....lb. .20 - —
Aldol, 95%, 55 and 110 gal. dms., c.l., works..lb. .11 - —
l.c.l., works.....lb. .12 - —
5 and 10 gal. dms., works, lb. .15 - —
Aletris root, bgs.....lb. .39 - .40
Alizarin (see Red, alizarin).
Alkanet root, bgs.....lb. .22 - .23
Aloe, Cape, cs.....lb. .22 - .24
Curacao, cs.....lb. .48 - .50
gourds, bbls.....lb. .80 - .85
Socotrine, kgs.....lb. .40 - .45
Aloin, 140-lb. bbls.....lb. 3.25 - —
100-lb. kgs.....lb. 3.27 - —
25-lb. fib. dms.....lb. 3.34 - —
Alphanaphthol, bbls.....lb. .83 - —
Alphanaphthylamine, bbls.....lb. .83 - —
Althea root, USP, cube cut, bbls., lb. .45 - .50
peeled, bls.....lb. .47 - .49
Alum, ammonia, burnt, USP, bbls., kgs..lb. .16 - .18
gran., bbls., works....100 lbs. 3.50 - —
dlvd. N. Y., Phila..100 lbs. 3.50 - —
lump, bbls., works.....100 lbs. 3.75 - —
dlvd. N. Y., Phila..100 lbs. 3.75 - —
powd., bbls., works....100 lbs. 3.90 - —
dlvd. N. Y., Phila..100 lbs. 3.90 - —
Ammonia alum prices are for contract and open market; f.o.b. Phila.; frt. equalized with Marcus Hook, Boston, Atlanta, or Joliet; rail or water rates, whichever is lower. L.c.l. quantities must carry l.c.l. rate applying; for truck or ex warehouse deliveries all metrop. zones (except N. Y.) add l.c.l. rail or water rate, whichever is lower, from shipping or equalization point; dlvd. N. Y. prices apply to truck or ex warehouse.
Potash, gran., bbls., works, 100 lbs. 3.75 - —
dlvd. N. Y., Phila..100 lbs. 3.75 - —
lump, bbls., works.....100 lbs. 4.00 - —
dlvd. N. Y., Phila..100 lbs. 4.00 - —
powd., bbls., works....100 lbs. 4.15 - —
dlvd. N. Y., Phila..100 lbs. 4.15 - —
Potash alum prices on same basis as those for ammonia alum.
Potash-chrome, bbls.....lb. .06¼ Nom.
Soda, bbls., c.l., works..100 lbs. 3.25 - —
l.c.l., dlvd.....100 lbs. 4.25 - 5.00
Alumina acetate, 20%, normal solut., bbls., c.l., dlvd..lb. .07½- —
l.c.l., dlvd.....lb. .09 - —
52%, basic solut., bbls., c.l., dlvd..lb. .10 - —
l.c.l., dlvd.....lb. .12 - —
basic powd., bbls., dlvd...lb. .40 - —
Alumina acetate, basic powd., smaller containers, dlvd., lb. .50 - —
Chloride, anhyd., com'l, dms., (extra), 45,000 lbs. and over, works..lb. .08 - —
12,000 to 40,000 lbs., works..lb. .09 - —
1,100 to 11,000 lbs., works, lb. .10 - —
140 to 875 lbs., works.lb. .11 - —
100 lbs. or less, works.lb. .12 - —
cryst., com'l, dms., c.l., works, lb. .06 - —
l.c.l., dms., works.....lb. .06½- —
solution, 32 deg., cbys., c.l., works..lb. .02¾- —
l.c.l., cbys., works.....lb. .03½- —
Formate, 30%, solut., bbls., c.l., dlvd..lb. .13 - —
l.c.l., dlvd.....lb. .15 - —
Hydrate, heavy, bbls., c.l., works..lb. .0290- —
l.c.l., bbls., works.....lb. .03½- —
bgs., c.l., works.....lb. .0290- —
light, bgs., c.l., dlvd.....lb. .12 - —
l.c.l., bgs., dlvd.....lb. .12½- —
bbls., c.l., dlvd.....lb. .12½- —
l.c.l., bbls., dlvd.....lb. .13 - —
Oleate, dms., contract.....lb. .17½- —
open order .....lb. .17½- .20
Palmitate, precip., bbls.....lb. .20½- .21½
Resinate, precip., dms., dlvd.lb. .15 - —
Stearate, precip., bbls., ctns., c.l..lb. .19 - —
l.c.l. .....lb. .20 - —
Sulphate, com'l, bgs., c.l., works, frt. equald..100 lbs. 1.15 - —
l.c.l., works, frt. equald.. 100 lbs. 1.40 - —
bbls., c.l., works, frt. equald. 100 lbs. 1.35 - —
bbls., l.c.l., works, frt., equaled..100 lbs. 1.60 - —
iron-free, bgs., c.l., works, 100 lbs. 1.45 - —
l.c.l., works.....100 lbs. 1.70 - —
bbls., c.l., works...100 lbs. 1.65 - —
l.c.l., works.....100 lbs. 1.90 - —
Aluminum 98-99%, c.l.....lb. .20 - —
l.c.l. .....lb. .21 - —
paste, lining, extra fine, dms., 1,500 lbs..lb. .63 - —
ink, dms., 1,500 lbs.....lb. .73 - —
standard, dms., 1,500 lbs..lb. .40 - —
powder, lining, extra fine, dms., 1,500 lbs..lb. .92 - —
standard, dms., 1,500 lbs.lb. .57 - —
litho, extra brilliant, dms., 1,500 lbs..lb. .43 - —
extra fine, dms., 1,500 lbs.lb. .47 - —
lining, dms., 1,500 lbs....lb. .57 - —
standard, dms., 1,500 lbs..lb. .42 - —
rubber compound, dms., 1,500 lbs..lb. .40 - —
unpolished, dms., 1,500 lbs. lb. .37 - —
varnish, extra brilliant, dms., 1,500 lbs..lb. .43 - —
extra fine, dms., 1,500 lbs.lb. .47 - —
standard, dms., 1,500 lbs.lb. .40 - —
Aluminum paste and powder prices are 5c. per lb. higher for less than 200 lbs.; 2c. per lb. higher for 200-400 lbs.; and 1c. per lb. higher for 400-1,500 lbs.; for containers smaller than drums, prices are 1c. per lb. higher for 100 lbs.; 1½c. per lb. higher for 50 lbs.; 3c. per lb. higher for 10 lbs.; 5c. per lb. higher for 2 lbs.; 8c. per lb. higher for 1 lb.; and 12c. per lb. for ½ lb.; on single shipments of 5,000 lbs. prices are 1c. per lb. lower; for 30,000 lbs. prices are 2c. per lb. lower. Transportation allowed East of Mississippi.
Ambergris, gray, tins.....oz. 17.00 -26.00
Aminopyrine, 100-lb. dms.....lb. 4.00 - —
5-lb. bots.....lb. 4.22 - 4.25
Ammonia, acetate, bbls., kgs., dvd..lb. .27 - .33
dms., dlvd.....lb. .23 - .26
Aldehyde, dms.....lb. .65 - .70
Anhydrous, fertilizer, com'l, tanks (50,000 lbs.), works.lb. .04½- —
refrigeration, tanks, works, lb. .05 - —
pure, cycls., dlvd., met. N.Y.lb. .16 - —
Anhydrous ammonia in cylinders is quoted on a nationwide schedule of delivered and stock point prices in all States.
Aqua, 20°, cbys.....lb. .06¼- —
dms., c.l. .....lb. .02¼- —
l.c.l. .....lb. .02½- —
tanks (on NH_3 content), f.o.b. works.....lb. .04 - —
Benzoate, dms., 4,000 lbs. or more..lb. .40 - .42
1,000 lbs. to 3,900 lbs....lb. .41 - .43
900 lbs. or less.....lb. .42 - .46
kgs., 4,000 lbs. or more....lb. .40 - —
1,000 lbs. to 3,900 lbs....lb. .41 - —
900 lbs. or less.....lb. .42 - —
Bicarbonate, bbls., dlvd., Met. N. Y..lb. .0556- —
kgs., same basis.....lb. .0606- —
Bichromate, bbls.....lb. .30 - .32
Bifluoride, bbls.....lb. .14½- .16½
Borate, bbls., kgs.....lb. .15 - .16
Bromide, gran., bbls.....lb. .35 - —
bxs. .....lb. .38 - .39
kegs .....lb. .36 - —
Carbonate, lump, bbls., dlvd., Met. N. Y..lb. .08 - —
kgs., same basis.....lb. .11 - —
cns., same basis.....lb. .13½- —
Powdered, 1c. per lb. higher.
Chloride, tech. (see Ammoniac, sal).
USP, gran., 225-lb. bbls....lb. .12 - .13
100-lb. kgs.....lb. .15 - —
Citrate, dms.....lb. .80 - —
cns. .....lb. .85 - —
Fluoride, bbls.....lb. .17 - .19
Hydroxide (see Ammonia, aqua).
Hypophosphite, dms.....lb. 1.25 - 1.27
jars .....lb. 1.35 - —
Iodide, 5-lb. bots.....lb. 3.71 - —
jars .....lb. 3.65 - —
Linoleate, 80%, anhyd., bbls., lb. .12 - —
Molybdate, kgs., wks.....lb. 1.05 - 1.20
Nitrate, tech., bgs., works, 100 lbs. 4.85 - —
bbls., works.....100 lbs. 4.55 - —
Oleate, dms.....lb. .14 - —
lime, ex vessel Atl. or Gulf ports for Feb. delivery, ton. 28.50 - —
Oxalate, neutral, powd., bbls., kgs..lb. .19 - .20
pure gran.....lb. .32 - —
Perchlorate, kgs.....lb. .17 - .19
Persulphate, kgs., dom.....lb. .21 - .22
imported, kgs.....lb. .18 - —
Phosphate, dibasic, N.F.V., bls., lb. .37 - —
kgs. .....lb. .39 - —
tech., bbls., c.l.....lb. .07½- —
l.c.l. .....lb. .09 - .10
monobasic, crude (fert. grade), 11% N 48% phos., bulk, f.o.b. E. works, unit-ton. 1.50 & .75
pure, bbls. .....lb. .40 - .45
tech., bbls., c.l.....lb. .07½- —
l.c.l. .....lb. .09 - .10
Salicylate, U.S.P., kgs.....lb. 1.15 - 1.20
Silicofluoride, imp., bbls. ex-dock N.Y..lb. .12½ Nom.
Stearate, anhydrous.....lb. .24½- —
paste .....lb. .06½- —

MoO_3

The two lowest cost raw materials for the production of all Molybdenum compounds, including Molybdated pigment colors, are:

PURE MOLYBDENUM TRIOXIDE
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MOLY

Ammonia, sulphate, dom., bulk, c.l., f.o.b. shipt..ton.28.00 - —

Ammonia sulphate prices are f.o.b. cars nearest Atlantic or Gulf port, and/or $1 per ton less than above prices f.o.b. cars nearest inland producing oven, whichever is lower to destination.

Sulphide, liquid, 40-45%, basis 100%, dms., c.l., divd..lb. .08 - —
l.c.l., works.....lb. .12 - .13
tanks, divd.....lb. .07½- —
red, 48%, cbys., works.....lb. .07½- —
dms., works.....lb. .05½- —
yellow, 38%, cbys., works..lb. .07½- —
dms., works.....lb. .05½- —

Sulphocyanide, pure, 99-100%, kgs..lb. .65 - —

Ammoniac, gum (see Gum, ammoniac).

sal, gray, dom., bbls., c.l., 100 lbs. 5.50 - 5.75
l.c.l. .....100 lbs. 6.00 - 6.70
white, gran., dom., bbls., c.l., works..100 lbs. 4.45 - —
l.c.l., same basis...100 lbs. 5.00 - 5.15
import, csks. .....100 lbs. No prices

Amyl acetate, ex fusel oil, tech., dms., c.l., divd..lb. .12½- —
l.c.l., divd.....lb. .13 - —
tanks, divd.....lb. .11½- —
cns., works.....lb. .17 - .19
ex pentane, dms., c.l., frt. alld..lb. .10½- —
l.c.l., frt. alld.....lb. .11½- —
tanks, frt. alld.....lb. .09½- —

Alcohol (see Alcohol amyl).

Butyrate, dms., 50 gal., returnable..lb. .75 - —
Caproate, cns.....lb. 2.75 - —
Chloride, normal, dms., works, lb. .56 - —
small lots, works.....lb. .68 - —
mixed, tech., dms., c.l., works..lb. .0565- —
l.c.l., works.....lb. .0665- —
tanks, works.....lb. .0465- —
Nitrite, bots.....lb. 1.80 - 1.85
Mercaptan, dms., l.c.l., works, lb. 1.10 - —
Oleate, dms., l.c.l., works..lb. .25 - —
Salicylate, 5 lbs., bots., 25 dms., l.c.l., works..lb. .26 - —
cns., 25 lbs.....lb. .51 - —
Stearate, dms., l.c.l., works..lb. .26 - —
Amylene, dms., c.l., works....lb. 1.02 - —
l.c.l., works.....lb. .11 - —
tanks, works.....lb. .09 - —
Anethol, bots.....lb. 1.05 - 1.15
Angelica root, dom., bls.....lb. .23 - .24
import, natural, bls.....lb. .70 - .75
twisted bls.....lb. .95 - 1.25
Angostura bark, bls.....lb. .28 - .32
Anilin oil, dms.....lb. .15 - —
l.c.l. .....lb. .16 - —
tanks .....lb. .14½- —
Salt, dms., works.....lb. .22 - .24
Anise, Mexican, bgs.....lb. .14 - .14½
Spanish, bgs.....lb. .28 - .29
Star, bgs.....lb. .15¾- .16¼
Anisic aldehyde, bots.....lb. 2.65 - 2.75
Annatto paste, bxs.....lb. .34 - .39
seed, bgs.....lb. .06½- .07
Anthracene, 80-85%, bbls., wks., lb. .55 - —
90%, bbls., wks.....lb. .65 - —
Anthraquinone, 99.5%, subl., bbls., lb. .65 - —
Antimony butter (see Antimony chloride).
Chloride, solut., cbys.....lb. .17 - —
Metal, spot.....lb. .14 Nom.
Needle, powd., kgs.....lb. .18 Nom.
Oxide, bgs., c.l.....lb. No price
l.c.l. .....lb. No price
Salt, 65%, kgs.....lb. .42 Nom.
White pigment, bgs., f.o.b. Laredo, Tex..lb. .15½ Nom.
Antipyrene, bbls., kgs., ton lots, lb. 2.00 - —
smaller lots.....lb. 2.10 - 2.15
Apomorphine, bots.....oz. 23.20 -23.70
Archil extract, con., bbls.....lb. No prices
double, bbls.....lb. No prices
triple, bbls.....lb. No prices
Areca nuts, powd., bbls.....lb. .13 - .16
Arecoline hydrobromide, bots..oz. 6.00 - 6.10
Argols, test 70% to 85%, basis 100%, 100 kgm., purity, 100 kilos. No prices
Arnica flowers, bls.....lb. .40 - .42
Root, bls.....lb. .49 - .51
Arrowroot, St. Vincent, powd. bgs..lb. .09 - .09¼
bbls. .....lb. .09½- .10
Arsenic, metal, lump, cs.....lb. No prices
Chloride (arsenous), cns.....lb. 4.85 - —
Iodide (arsenous), 5-lb. bots.lb. 5.58 - —
jars .....lb. 5.43 - —
Red, import, cs.....lb. .17½- .18
Trioxide (see Acid, arsenous).
White, powd., kgs., c.l.....lb. .03 - —
l.c.l. .....lb. .03¾- —
Asafetida, cs.....lb. .45 - .50
powd., bbls., bxs.....lb. .70 - .75
Asbestine (see Talc, N. Y. fibrous).
Asbestos fiber, 5M, bgs., c.l. (20 tons), Canad. mines..ton.42.50 - —
5R, bgs., c.l. (20 tons), Canad. mines..ton.40.00 - —
6D, bgs., c.l. (30 tons), Canad. mines..ton.30.00 - —
7D, bgs., c.l. (30 tons), Canad. mines..ton.25.00 - —
7F, bgs., c.l. (30 tons), Canad. mines..ton.23.00 - —
7H, bgs., c.l. (30 tons), Canad. mines..ton.19.00 - —
7K, bgs., c.l. (30 tons), Canad. mines..ton.16.50 - —
7M, bgs., c.l. (30 tons), Canad. mines..ton.14.00 - —
Asphaltum, Manjab No. 10, crude, tons, f.o.b. plant.....lb. .04½- —
smaller lots, f.o.b. plant, lb. .05½- —
process form, bgs., 20 tons, f.o.b. plant.....lb. .05 - —
smaller lots, f.o.b. plant..lb. .06 - —
California, dms., c.l., f.o.b. N. Y..ton.29.00 - —
l.c.l., f.o.b. N. Y.....ton.36.50 - —
Cuban A, bgs., c.l., f.o.b. N. Y. ton.60.00 - —
l.c.l., f.o.b. N. Y.....ton.90.00 - —
B, bgs., c.l., f.o.b. N. Y..ton.35.00 - —
l.c.l., f.o.b. N. Y.....ton.55.00 - —
Egyptian, bgs., c.l., f.o.b. N. Y..lb. .12 - —
l.c.l., f.o.b. N. Y.....lb. .15 - —
Gilsonite, brilliant black, bgs., c.l., Western shipt. points.. ton.32.00 - —
seconds, bgs., c.l., Western shipt. points..ton.25.50 - —
selects, bgs., c.l., Western shipt. points..ton.30.50 - —
l.c.l., f.o.b., N. J. or N. Y., whse..ton.51.00 - —
Jet., bgs., c.l., Western shipping points..ton.30.50 - —
Manjak (see Asphaltum, Barbados).
Mexican, Texas, dms., c.l., refinery..ton.19.00 - —
l.c.l., refinery.....ton.21.00 - —
tanks, refinery.....ton.16.00 - —

Asphaltum petroleum, cut-back, bbls., l.c.l., E. cst., refinery..gal. .18 - —
dms., c.l., E. cst., refinery, gal. .12 - —
tanks, Calif., refinery...ton.12.50 -14.00
East Coast, refinery...gal. .06 - .06½
Ill., Ind., refinery.....gal. .06½- —
N. Orleans refinery....gal. .06 - —
Atropine, bots.....oz. 5.75 - 6.00
Sulphate, bots.....oz. 4.45 - 4.70

B

Balm of Gilead buds, bgs.....lb. .45 - .50
Barberry bark, bgs.....lb. .37 - .39
Tree bark, bls.....lb. No prices
Barbital, cs.....lb. 3.50 - 3.60
sodium, cs.....lb. 3.75 - —
Barium carbonate, natural, 90-96%, grd., bgs., c.l., works, ton.45.00 -47.00
99% thru 200 mesh, bgs., c.l.,works..ton.47.00 -49.00
precip., bgs., c.l., works..ton.52.50 - —
Chicago .....ton.55.00 - —
l.c.l., works.....ton.57.50 - —
Chicago .....ton.60.00 - —
bbls., c.l., works.ton.57.50 - —
Chicago .....ton.60.00 - —
l.c.l., works.....ton.62.50 - —
Chicago .....ton.65.00 - —
sulphur-free, bgs., c.l., works, ton.57.50 - —
l.c.l., works.....ton.62.50 - —
Barium, chlorate, kgs.....lb. .20 - .22
Chloride, CP., cryst., bbls...lb. .25 - —
kgs. .....lb. .27 - —
tech., dom., cryst., bgs., c.l., Zone 1, divd., New England States, N. Y., N. J., Pa., Md., Va., Ohio, Mich., Ind., Wisc., Ill., Ky. and principal cities on west bank of Miss., north of Ark. line...ton.77.00 - —
bbls., same basis...ton.79.00 - —
l.c.l., bgs., same basis, ton.90.00 - —
bbls., same basis...ton.92.00 - —
Zone 2, bgs., c.l., divd., Tenn., N.-S. Carolina, Ga., Ala., Miss., Fla., ton.81.00 - —
bbls., same basis...ton.83.00 - —
l.c.l., bgs., same basis, ton.94.00 - —
bbls., same basis...ton.96.00 - —
Zone 3, bgs., c.l., Minn., Ia., Mo., Col., N. Mex., Idaho, Utah, Ariz. ton.87.00 - —
bbls., same basis..ton.89.00 - —
l.c.l., bgs., same basis, ton.100.00 - —
bbls., same basis..ton.102.00 - —
Zone 4, bgs., c.l., divd., Wash., Ore., Calif., Nev..ton.83.00 - —
bbls., same basis..ton.85.00 - —
l.c.l., bgs., same basis.ton.96.00 - —
bbls., same basis..ton.98.00 - —
Dioxide, dms.....lb. .11 - .15
Fluoride, bbls.....lb. .14 - .15
Fluosilicate, bbls.....lb. .16 - —
Hydrate (see Hydroxide).
Hydroxide, bbls., imp.....lb. .06½ Nom.
dom., works.....lb. .06½- .07
Iodide, bots.....lb. 4.77 - —
jars .....lb. 4.62 - —
Monoxide (see Oxide).
Nitrate, cks.....lb. .09 - .10½
Oxide, dms.....lb. .09 - .11
Peroxide (see Dioxide).
Sulphate, tech. (see Barytes and blanc fixe).
X-ray, bbls.....lb. .09½- .10
kgs. .....lb. .12 - —
Barytes, dom., floated, bbls., c.l., St. Louis..ton.25.15 - —
l.c.l., same basis.....ton.26.15 - —
paper bags, c.l., St. Louis..ton.22.85 - —
l.c.l., same basis.....ton.23.85 - —
ex whse., New York.....ton.31.50 - —
southern off color, bulk, mines, ton.12.00 - —
95.75%, bulk, mines....ton.16.00 - —
ore, bulk, mines.....ton. 7.00 - —
Cuban, crude, c.l., c.i.f....ton.11.00 - —
German, grd., bbls., c.l., dock, t.a..ton. No prices.
l.c.l., ex whse.....ton. No prices.
ungrd., bulk, c.l., ex dock.ton. No prices.
Italian, grd., bbls., c.l., ex dock, t.a...ton.29.50 Nom.
l.c.l., ex whse. .....ton.32.50 Nom.
Bauxite, bulk, mines.....ton. 7.00 -10.00
Bay leaves (see Laurel leaves).
Bay rum, import, bbls.....lb. .82 - .90
Bayberry bark, bgs.....lb. .14 - .15
Belladonna leaves, bls.....lb. .24 - .30
Root, bls.....lb. .35 - .45
Bentonite, 200 mesh, bgs., Wyo., works..ton.11.00 - —
325 mesh, bgs., Wyo., works, ton.16.00 - —
Benzaldehyde, tech., cbys, dms., lb. .55 - .60
USP, X, dms., 50 to 100 lbs..lb. .85 - —
5 to 25 lbs.....lb. .90 - .95
Benzene (see benzol).
Benzidin base, bbls.....lb. .70 - —
Benzol, 90%, dms., returnable, works..gal. .21 - —
tankcars, frt. alld. E. of Omaha, gal. .16 - —
W. Coast, f.o.b. Minnequa, Colo..gal. .16 - —
export .....gal. .17 - —
Benzoyl chloride, cbys.....lb. .23 - .28
Peroxide, pure, gran., fib. ctns., works..lb. 1.95 - —
Benzyl acetate, f.f.c., cns.....lb. .49 - —
dms. .....lb. .44 - —
Alcohol (see Alcohol, benzyl).
Benzoate, a.m.a., f.f.c., cans, lb. .84 - —
dms. .....lb. .80 - —
Chloride, 95.97%, refd., dms., lb. .19 - .21
Cinnamate, cns.....lb. 4.15 - 5.50
Formate, cns.....lb. 2.75 - 3.50
Benzylidineacetone, bots.....lb. 2.00 - 2.50
Berberine bisulphate, cns.....lb.17.25 -17.50
Hydrochloride, cns.....lb.17.25 -17.50
Sulphate, cns.....lb.17.25 -17.50
Berberis root, bls.....lb. .11 - .13
Betanaphthol, sublim., kgs....lb. .60 - —
tech., bbls., c.l., works....lb. .23 - —
l.c.l., bbls., works.....lb. .24 - —
Benzoate, fib., dms.....lb. 2.10 - —
kgs .....lb. 2.00 - —
Betanaphthylamine, tech., kgs.lb. .51 - —
Beth root, bls.....lb. .19 - .21
Bismuth chloride, 5-lb. bots...lb. 3.20 - 3.25
Citrate, USP, VIII, 5-lb. bots., lb. 2.70 - —
jars .....lb. 2.65 - —

Bismuth hydroxide, 5-lb. bots..lb. 3.46 - —
cns. .....lb. 3.35 - —
Metal, ton lots.....lb. 1.25 - —
Nitrate, cryst., 5-lb. bots...lb. 1.45 - —
cans. .....lb. 1.30 - —
Oxychloride, 5-lb. bots.....lb. 3.19 - —
cns., kgs.....lb. 3.10 - —
Subbenzoate, 5-lb. bots.....lb. 3.36 - —
fib. dms.....lb. 1.13 - —
Subcarbonate, bots., cns.....lb. 1.82 - 2.06
fib. dms.....lb. 1.73 - 1.76
X-ray, 5-lb. bots.....lb. 3.02 - —
fib. dms.....lb. 2.96 - —
Subgallate, bots., cns.....lb. 1.77 - 2.03
fib. dms.....lb. 1.68 - 1.71
Subiodide, cns.....lb. 4.01 - —
fib. dms.....lb. 3.98 - —
Subnitrate, powd., bots., cns.lb. 1.57 - 1.83
fib. dms.....lb. 1.48 - 1.51
Subsalicylate, 61-66%, bxs...lb. 2.59 - —
bbls., fib. dms.....lb. 2.50 - —
Sulphocarbolate, 5-lb. bots...lb. 3.61 - —
fib. dms .....lb. 3.50 - —
Trioxide, powd., 5-lb. bots...lb. 3.56 - —
cns. .....lb. 3.45 - —
Bismuth-ammonia, citrate, USP, powd., 5-lb. lots..lb. 3.40 - —
cns. .....lb. 3.20 - —
Bismuth-betanaphthol, 5-lb. bots., lb. 3.14 - —
fib. dms.....lb. 3.05 - —
Black, acetylene, c.l., works, duty paid..lb. .14 - —
Bone, 1A, bbls., bgs., c.l., frt., alld. E..lb. .17 - —
l.c.l., frt. alld. E.....lb. .17½- —
1, bbls., bgs., c.l., frt. alld. E..lb. .13 - —
l.c.l., frt. alld., E.....lb. .13½- —
2, bbls., bgs., c.l., frt. alld. E. lb. .11¼- —
l.c.l., frt. alld. E.....lb. .12 - —
3, bbls., bgs., c.l., frt. alld., E..lb. .10½- —
l.c.l., frt. alld. E.... .lb. .11 - —
4, bbls., c.l., frt. alld. E..lb. .09½- —
l.c.l., frt. alld. E.....lb. .10 - —
5, bbls., bgs., c.l., frt. alld. E..lb. .08½- —
l.c.l., frt. alld. E.....lb. .09 - —
6 bbls., c.l., frt. alld. E..lb. .08½- —
l.c.l., frt. alld. E.....lb. .07 - —
7 bbls., bgs., c.l., frt. alld. E..lb. .10 - —
l.c.l., frt. alld. E.....lb. .10½- —
8, bbls., bgs., c.l., frt. alld. E. lb. .11 - —
l.c.l., frt. alld. E.....lb. .11½- —

Bone black prices on Pacific Coast are 1c. per lb. higher, ex dock or ex whse.

Carbon, regular, uncompressed, bgs., c.l., f.o.b. plants. lb. .0255- —
f.o.b. North Atlantic ports, lb. .03425- —
beads, compressed, bgs., c.l., f.o.b. plants..lb. .02425- —
f.o.b. North Atlantic ports, lb. .0330- —
l.c.l., beads or uncompressed, bgs., f.o.b. whse..lb. .05¾- —
divd..lb. .06¼- —
cartons, f.o.b. whse. or divd..lb. .06¼- —
cases, f.o.b. whse. or divd. lb. .07 - —
bulk, cars, c.l., f.o.b. plants. lb. .0230- —
f.o.b. New York harbor..lb. .0318- —
Special, 2, bgs., c.l., works, lb. .08½- —
l.c.l., divd.....lb. .10½- —
bgs., l.c.l., divd.....lb. .12 - —
3, bgs., c.l., works.....lb. .13 - —
l.c.l., divd.....lb. .14½- —
ca., l.c.l., divd.....lb. .16½- —
4, bgs., c.l., works.....lb. .29 - —
ca., c.l., works.....lb. .29 - —
l.c.l., divd.....lb. .32 - —
5, bgs., ca., c.l., works...lb. .40 - —
ca., c.l., divd.....lb. .44 - —
6, ca., l.c.l., divd.....lb. .60 - —
7 ca., l.c.l., divd...lb. 1.10 - —
export, full compressed, bgs., f.a.s., Gulf ports..lb. .0521- —
uncompressed, cs., f.a.s., Gulf ports..lb. .0621- —

Charcoal (see C).

Graphite (see G).

Iron oxide, magnetic, 1, pure, bbls., l.c.l., works..lb. .08¾- —
2, bbls., l.c.l., works.....lb. .08 - —
Ivory, genuine, bbls.....lb. .30 - —
Lamp, dom., 1, ctns., c.l., works..lb. .07 - —
l.c.l., works.....lb. .08 - —
2, ctns., c.l., works.....lb. .09 - —
l.c.l., works.....lb. .10 - —
2A, ctns., c.l., works.....lb. .11 - —
l.c.l., works.....lb. .12 - —
1, ctns., c.l., 3, ctns., c.l., works..lb. .13 - —
l.c.l., works.....lb. .14 - —
4, ctns., c.l., works.....lb. .14 - —
l.c.l., works.....lb. .15 - —
5, ctns., c.l., works.....lb. .17 - —
l.c.l., works.....lb. .18 - —
6, ctns., c.l., works.....lb. .24 - —
l.c.l., works.....lb. .25 - —
7, ctns., c.l., works.....lb. .34 - —
l.c.l., works.....lb. .35 - —
import, 1, bbls., c.l., f.o.b. N. Y..lb. .08 - —
l.c.l., f.o.b. N. Y.....lb. .09 - —
2, bbls., c.l., f.o.b. N. Y..lb. .11 - —
l.c.l., f.o.b. N. Y.....lb. .12 - —
3, bbls., c.l., f.o.b. N. Y..lb. .13 - —
l.c.l., f.o.b. N. Y.....lb. .14 - —
4, bbls., c.l., f.o.b. N. Y..lb. .14 - —
5, bbls., c.l., f.o.b. N. Y..lb. .19 - —
lc.l., f.o.b. N. Y.....lb. .20 - —
6, bbls, c.l., f.o.b. N. Y..lb. .24 - —
l.c.l., f.o.b. N. Y.....lb. .25 - —
vine, A, bbls, works or N. Y., lb. .04½- —
B, bbls., works or N. Y..lb. .05½- —
works..lb. .13½- .15½
dms., c.l., frt. alld.....lb. .09 - —
l.c.l., frt. alld.....lb. .09½- —

Black dyes are listed under Dyes.

Black Haw, root bark, bls....lb. .26 - .27
Tree bark, bls.....lb. .15 - .18
Black Indian hemp root, bls..lb. .22 - .23
Blanc fixe, dry, by-product, bgs., c.l., works..ton.50.00 - —
l.c.l., works.....ton.60.00 - —
direct process, bgs., c.l., works, frt. equal.ton.70.00 - —
l.c.l., same basis....ton.75.00 -90.00
pulp, 66⅔%, bbls., c.l., works. ton.35.00 - —
l.c.l., works.....ton.42.50 - —
Bleaching powder, dms., c.l., works..100 lbs. 2.00 - 2.85
l.c.l., works.....100 lbs. 2.25 - 2.35
Blood, dried, dom., 16-16½ ammon., bgs., f.o.b. N. Y., unit-ton. 3.35 - —
high-grade, grd., 16-17 ammon., bulk, f.o.b. Chi., unit-ton. 3.50 - —
import, bgs., c.i.f. (ports shipt., unit-ton. 3.30 - —
soluble (see Albumen, blood)
Bloodroot, bls. .....lb. .11 - .13

Ammo.Sulphate—Brown, Sienna

Blue, alkali, toner, bbls., divd. N. of Tenn. and N. C., E. of Miss. river, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis, lb. .90 - —

Alkali blue toner prices are ½c. higher divd. Ala., Fla., Ga., La. (Shreveport, 1½c.), Miss., N. C., S. C., Tenn., Tex. (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; ½c. higher divd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.

Bronze, bbls., same basis, alkali toner contracts..lb. .36 - —
open order.....lb. .37 - —
Celestial, bbls.....lb. .10 - .12
Chinese, bbls., same basis, alkali toner, contracts..lb. .36 - —
open order.....lb. .37 - —
Cobalt, genuine, 1-kilo pkg., lb. 4.90 - —
Imitation (see Blue, ultramarine).
Copper, phthalocyanin, bbls., f.o.b. works, frt. alld..lb. 3.50 - 3.75
Milori, bbls., same basis alkali toner, contracts..lb. .33 - —
open order.....lb. .34 - —
Potash, dom., bbls., same basis alkali toner, contracts..lb. .42 - —
open order.....lb. .43 - —
Prussian, bbls., same basis alkali toner, contracts..lb. .33 - —
open order.....lb. .34 - —
soluble, bbls., same basis alkali toner, contracts. lb. .36 - —
open order.....lb. .37 - —
Tungstated, peacock, kgs....lb. 3.75 - —
Victoria, kgs.....lb. 3.36 - —
Ultramarine, dry or pulp, cobalt grades, bbls., works, frt. equal..lb. .22 - .27
jobbing grades, bbls., same basis..lb. .11 - —
regular grades, bbls., same basis..lb. .16 - .27
Blue, ultramarine, blue, divd., ex whse., is 1c. higher; Pac. Coast ex whse., 2c., higher; 100-lb. kgs., 1c. above bbls.; 25-lb. boxes 5c. above bbls.
Victoria, ink toner, bbls., same basis alkali toner..lb. 1.85 - —

Blue dyes are listed under Dyes.

Bluefiag root, bls. .....lb. .13 - .14
Blue mass, USP, cns.....lb. 1.47 - —
powd., cns.....lb. 1.49 - —
Bluestone (see Copper sulphate)
Blue vitriol (see copper sulphate)
Bone, raw, dom., 4½% ammon., 50% phos., bgs., f.o.b. Chicago..ton.32.00 -33.00
import, bgs., c.i.f. ports.ton.30.00 - —
Meal, steamed, dom., 2% ammon., 50% phos., bgs., f.o.b. Chicago..ton.32.00 - —
import, 100-lbs., bgs., c.i.f., ports, shipt..ton.32.00 - —
Phosphate, precip. (see Calcium phosphate dibasic, precip.)
Steamed, dom., 1¼% ammon., 60% phos. bgs., f.o.b., Chicago..ton.29.00 -30.00
import, 1% ammon., 65-70% phos., bgs., c.i.f. ports.ton.34.50 - —
Boneset leaves, bales.....lb. .08 - .09
Borage flowers, bales.....lb. .20 - .25
Borax, tech., 99½%, cryst., bbls., contracts, 80 tons min., divd..ton.58.00 - —
l.c.l., ex whse.....ton.67.00 -72.00
sks., contracts, 80 tons min., divd..ton.48.00 - —
l.c.l., ex whse.....ton.57.00 -62.00
gran., bbls., contracts, 80 tons min., divd..ton.53.00 - —
l.c.l., ex whse.....ton.64.00 -69.00
sks., contracts, 80 tons min., divd..ton.43.00 - —
l.c.l., ex whse.....ton.54.00 -59.00
powd., bbls., contracts, 80 tons min., divd..ton.58.00 - —
l.c.l., ex whse.....ton.69.00 -74.00
sks., contracts, 80 tons min. divd..ton.48.00 - —
l.c.l., ex whse.....ton.59.00 -64.00

USP, $15 per ton higher.

Bordeaux mixture, dms., c.l., dealers..lb. .11 - —
l.c.l., dealers, dms..lb. .11½- —

Bordeaux mixture prices are works or whse. basis, frt. alld. to dest. in lots 96 lbs. and over; no trucking or freight allowances for works or warehouse pick-ups.

Borneol, bots. .....lb. 1.75 - 2.00

Brazilwood extract (see Hypernic).

Brimstone (see Sulphur).

Bromine, purif., cs., 1,000 lbs., frt. alld. E. of Rockies..lb. .30 - —
single pkg., same basis..lb. .35 - —
Bromoform, USP, bots.....lb. 1.40 - 1.60
Bromstyrol, bots.....lb. 3.50 - 3.75
Bronze powder, aluminum (see A).
Gold, litho, cns., dms., over 10 lbs..lb. .60 - .66
moulding, cns., dms., over 10 lbs..lb. .80 - 1.00
printing ink, cns., dms., over 10 lbs..lb. .85 - 1.20
radiator, cns., dms., over 10 lbs..lb. .45 - .50
Broomtop, bls.....lb. .14 - .15
Brown, iron oxide, pure precip., cks., f.o.b. N.Y.....lb. .11½- —
Metallic, iron oxide, bbls., works, lb. .02½- —
paper bags, c.l., works....lb. .0210- —
Sienna, burnt, American, bbls., f.o.b. works..lb. .03¼- —
Italian, Group 1, bbls., f.o.b. N.Y. or Pa. points..lb. .12½- —
2, bbls., same basis..lb. .11½- —
3, bbls., same basis...lb. .10¾- —
4, bbls., same basis..lb. .09 - —
5, bbls., same basis...lb. .09 - —
6, bbls., same basis...lb. .08¾- —
7, bbls., same basis...lb. .08¼- —
8, bbls., same basis...lb. .08 - —
9, bbls., same basis...lb. .07½- —
10, bbls., same basis..lb. .07¼- —
11, bbls., same basis..lb. .07 - —
12, bbls., same basis..lb. .06¾- —
13, bbls., same basis....lb. .06¼- —
14, bbls., same basis..lb. .06¾- —
raw, American, bbls., f.o.b. works..lb. .03¾- —
Italian, Group 1, bbls., f.o.b. N.Y. or works..lb. .13¾- —
2, bbls., same basis...lb. .11½- —
3, bbls., same basis...lb. .12¾- —
4, bbls., same basis...lb. .09¾- —
5, bbls., same basis...lb. .09¼- —
6, bbls., same basis...lb. .08¾- —
7, bbls., same basis...lb. .09 - —
8, bbls., same basis...lb. .07½- —
9, bbls., same basis...lb. .07 - —
10, bbls., same basis..lb. .06¼- —
11, bbls., same basis..lb. .06¼- —

Brown, Umber—Casein

Brown, umber, American, bbls., works..lb. .03½- —
Turkey, bbls., l.c.l., f.o.b. Bethlehem, Easton, Pa., N. Y.....lb. .04¼- —
St. Louis.....lb. .04¾- —
ex car Los Angeles...lb. .05 - —
ex whse., Los Angeles, Portland, San Francisco, Seattle..lb. .05¼- —
Boston .....lb. .04½- —
Chicago, Indianapolis, New Orleans.....lb. .05 - —
ex whse., Kansas City..lb. .05½- —
Los Angeles, Portland, San Francisco, Seattle .....lb. .04¾- —
Minneapolis .....lb. .0510- —
Pittsburgh .....lb. .04¾- —
Vandyke, bbls., l.c.l.....lb. No prices
Walnut crystals, bbls.....lb. .06½- —
Brucine, 100 oz., cns.....oz. .15 - —
Sulphate, 100 oz., cns.....oz. .12 - —
Bryonia root, bls.....lb. .15 - .16
Buchu leaves, bls.....lb. .75 - .80
Buckthorn bark, true, bls.....lb. .20 - .22
cut and sifted, bbls.....lb. .23 - .25
Berries, bgs.....lb. .25 - .30
Burdock root, bls.....lb. .14 - .15
Burgundy pitch, dom., dms...lb. .05½- .06
Butane, comi., 16-34°, tanks, group 3..gal. .02½- .03
Butternut bark, bls.....lb. .07 - .08
Butyl acetate, norm., cns., wks., lb. .14½- .16½
dms.. c.l.. frt. alld.....lb. .10 -
l.c.l., frt. alld.....lb. .10½- —

Butyl acetate, norm., tanks, frt. alld..lb. .09 - —
tankwagons, frt. alld....lb. .09½- —
contract prices 1c. per gal., less
secondary, dms., c.l., frt. pd. E. of Miss. R..lb. .07½- —
dms., l.c.l., same terms.lb. .08 - —
tanks, same terms.....lb. .06½- —
Alcohol (see Alcohol):—
Aldehyde, dms., c.l., works..lb. .15½- —
l.c.l., works.....lb. .16½- .17½
tanks, works.....lb. .14½- —
Carbinol (see Carbinol).
Chloride, normal, dms., c.l., works..lb. .20 - —
l.c.l. .....lb. .23 - —
Crotonate, normal, 55 gal. dms., dlvd..lb. .35 - —
5 gal. cns.....lb. .75 - —
1 gal. cns.....lb. 1.00 - —
Ether (see under Ether).
Lactate, dms. .....lb. .23½- —
Propionate, dms., dlvd.....lb. .16½- .17
tanks .....lb. .15½- —
Stearate, dms.....lb. .28½- —
Butyric ether, bots.....gal. 6.60 - 6.95
cns., works.....lb. .65 - .70
dms., frt. alld. Met. N. Y..lb. .60 - —

C

Cadmium, bromide, 25-lb. jars, 50 lbs. or more..lb. 1.56 - —
single jars.....lb. 1.61 - —
5-lb. bots.....lb. 1.75 - —
Iodide, 5-lb. bots.....lb. 4.19 - —
25-lb. cns.....lb. 4.08 - —
Lithopone (see Yellow).

Cadmium metal, pat., shapes, cs. lb. .85 - —
ingots, or sticks.....lb. .80 - —
Red (see Red).
Selenide (see Red).
Sulphide (see Yellow).
Caffeine, 100-lb. dms., 10,000 lbs. or more..lb. 2.20 - —
2,000 lbs. or more.....lb. 2.25 - —
1,000 lbs. or more.....lb. 2.30 - —
100 lbs.....lb. 2.35 - —
25-lb. dms., 10,000 lbs. or more..lb. 2.23 - —
2,000 lbs. or more.....lb. 2.28 - —
1,000 lbs. or more.....lb. 2.33 - —
100 lbs.....lb. 2.43 - —
25 lbs.....lb. 2.55 - —
10-oz. cans, 10,000 lbs. or more..lb. 2.25 - —
2,000 lbs. or more.....lb. 2.30 - —
1,000 lbs. or more.....lb. 2.35 - —
100 lbs.....lb. 2.40 - —
less than 100 lbs.....lb. 2.75 - —
5-lb. cans, 25 lbs. or more..lb. 2.70 - —
less than 25 lbs.....lb. 2.85 - —
Citrated, cns.....lb. 1.80 - 2.10
Hydrobromine, bots.....lb. 4.91 - 4.99
Calabar beans, bgs.....lb. .27 - .28
Calamus root, peeled, N.F., cs., lb. .20 - .22
bleached, bls.....lb. 1.00 - 1.10
Calcium acetate, bgs., dlvd., 100 lbs. 1.90 - —
Arsenate, bgs., c.l., dealers, E. of Rockies..lb. .06¾- .07¼
W. of Rockies, bgs., dms., lb. .06½- .06¾
Southern cotton states, bgs., dms..lb. .06½- .06¾
Calcium arsenate prices are works or whse. basis, frt. alld. to dest. in lots of 96 lbs. or over; no frt. or truck allowance for plant or whse. pick-up

Calcium bromide, 100 lbs., works, frt. equaled..lb. .70 - —
50 lbs., works.....lb. .72 - —
25 lbs., works.....lb. .75 - —
Carbide, dms., c.l., dlvd.....lb. 4.75 - —
l.c.l., f.o.b. warehouse....lb. 4.85 - —
Carbonate (see Chalk and Whiting)
Chloride, flake, dom., 77-88%, bgs., dms., c.l., dlvd..ton. 22.00 -35.00
l.c.l., 1 ton or over, dlvd., 100 lbs. 1.70 - 2.35
liquor, basis 40%, tanks, works..ton. 7.50 - —
solid, dom., 73-75%, bgs., dms., c.l., dlvd..ton. 20.00 -35.00
l.c.l., 1 ton or over, dlvd., 100 lbs. 1.60 - 2.20
Gluconate, USP, gran., powd., 125-lb. bbls..lb. .50 - —
dms. .....lb. .55 - .67
cns. .....lb. .68 - .85
Glycerophosphate, fib., dms., 1,000-lb. lots..lb. 1.10 - —
smaller lots.....lb. 1.25 - —
cns., 25 lbs.....lb. 1.50 - —
Hypophosphite, cns.....lb. .62 - .67
Iodide, bots., jars.....lb. 4.04 - 4.19
Lactate, USP, bbls., 200 lbs..lb. .23 - —
Nitrate, bgs., to fert. mfrs., ex vessel Atlantic or Gulf ports, for shipment during Feb. ton. No prices
Palmitate, bbls.....lb. .22 - .24
Phosphate, dibasic, precip., 38-40% P_2O_5, bgs., c.l.f., Atlantic ports, shipt...unit-ton. No prices
tribasic, c.l., bbls., works..lb. .0685- —
l.c.l., bbls.....lb. .0705- —
Resinate, precip., bbls., 1 ton, lb. .13 - —
smaller lots.....lb. .14 - —
Stearate, precip., bbls., ctns., c.l..lb. .20¼- —
l.c.l., 1 ton.....lb. .22½- —
Sulphate (see Gypsum).
Sulphide, 70%, CaS., bgs., c.l., works..ton. 46.00 - —
80%, CaS., bgs., c.l., wks.ton. 51.00 - —
luminous, dom., tins, works, 100 lbs..lb. 1.25 - —
Sulphocarbolate, bbls., 200 lbs., lb. .47 - .48
kgs., 100 lbs.....lb. .50 - —
Calendula flowers, bls.....lb. .35 - .40
Calomel, bbls., fib., dms., kgs., 50 lbs. or more..lb. 2.45 - —
Camphor, natural, powd., cs..lb. .83 - .84
slabs, cs.....lb. .83 - .84
tablets, tins.....lb. .88 - .89
synth., dom., tech., bbls., contract, 2,000 lbs. or more, works..lb. .35 - —
smaller lots, works....lb. .40 - —
USP, or import., gran. powd., bbls., 2,000-lb. lots..lb. .55 - —
1,000-lb. lots.....lb. .56 - —
smaller lots.....lb. .57 - —
tablets, 2,000-lb. lots....lb. .68 - —
1,000-lb. lots.....lb. .69 - —
smaller lots.....lb. .70 - —
Monobromate, bxs., kgs.....lb. 2.00 - 2.05
Canada balsam (see Fir balsam).
Canary seed, Argentina, bgs...lb. .03½- .04
Morocco, bgs.....lb. .0380- .0410
Turkish, bgs.....lb. .0380- .0410
Canella alba bark, bls.....lb. .45 - .50
Cantharides, Chinese, cs.....lb. .90 - .95
powd., bxs.....lb. 1.10 - 1.15
Russian, cs.....lb. 2.25 - 2.30
powd., bxs.....lb. 2.50 - 2.55
Capsicum (see Pepper, red).
Caraway seed, Dutch, bgs.....lb. .12¾- .13¼
Russian, bgs.....lb. .12¼- .12¾
Carbazole, 95%, dms., ton lots, works..lb. .70 - —
smaller quantities, works..lb. .80 - —
95%, dms., ton lots, works..lb. .75 - —
smaller quantities, works..lb. .85 - —
Carbinol, butyl, norm., dms., Diethyl, dms., works.....lb. .90 - —
small lots, works.....lb. .75 - —
Dimethylethyl, dms., works..lb. .60 - —
small lots, works.....lb. .75 - —
Isobutyl, 128-132°, dms., c.l., works..lb. .36 - —
l.c.l., works.....lb. .34 - —
tanks, works.....lb. .32 - —
Carbon bisulphide, 55-gal. dms., c.l., frt. all'd. E. of Miss. R., N. of Ohio R..lb. .05 - —
l.c.l., same basis.....lb. .05¾- —
5-gal. dms., c.l., same basis, lb. .07 - .07½
l.c.l., same basis.....lb. .08 - .08½
Dioxide, cyls.....lb. .06 - .06
Tetrachloride, Zone 1, 52½-gal. dms., c.l., frt. alld..gal. .06½- —
l.c.l., frt. alld.....gal. .73 - —
5 or 10-gal. dms., c.l., frt. alld..gal. .90 - —
l.c.l., frt. alld.....gal. 1.00 - —
Zone 2, 52½-gal. dms., c.l., frt. alld..gal. .73 - —
l.c.l., frt. alld.....gal. .80 - —
5 or 10-gal. dms., c.l., frt. alld..gal. .97 - —
l.c.l., frt. alld.....gal. 1.07 - —
Zone 3, 52½-gal. dms., c.l., frt. alld..gal. .87 - —
l.c.l., frt. adll.....gal. .93 - —
5 or 10-gal. dms., c.l., frt. alld..gal. 1.10 - —
l.c.l., frt. alld.....gal. 1.20 - —
Zone 4, 52½-gal. dms., c.l.gal. .83 - —
l.c.l. .....gal. .90 - —
5 or 10-gal. dms., c.l..gal. 1.07 - —
l.c.l. .....gal. 1.17 - —

All prices on carbon tetrachloride are frt. alld. with the exception of Zone 4, in which case the prices indicated are based on f.o.b. cars, L. A., Cal.; S. F., Cal.; Portland, Ore., and Seattle, Wash. All packages are inclusive and not returnable. Zone 1, includes the following States:—Me., N. H., Vt., Mass., Ct., R. I., N. Y., N. J., Pa., Md., Del., Va., W. Va., N. C., Tenn., O., Ind., Mich., Ill., Wis., Minn., Ia., Mo., also the river towns of Burlington, Ia., and Kansas City, Kan. Zone 2 includes N. D., S. D., Neb., Kan., Okla., Ark., La., Miss, Ala., Ga., S. C. and Fla. Zone 3 includes that portion of Montana east of Billings and the states of Wyoming, Colo., N. M. and Texas. Zone 4 includes Wash., Idaho, Montana, Ore., Cal., Nev., Utah and Arizona.

Cardamom, bleached, cs.....lb. 1.25 - 1.35
decorticated, cs.....lb. .83 - .85
green, bgs.....lb. .73 - .75
Carob bean flour (see Gum, Locust bean).
Carvol, bots.....lb. 4.00 - 4.25
Cascara sagrada bark, bulk...lb. .15 - .16
Case-hardening mixture, 10%, lump, dms., l.c.l..lb. .09 - —
Casein, dom., 20-30 mesh, bgs., c.l., dlvd..lb. .13 - .14
5 tons, works.....lb. .14½- .15½
smaller lots, works.....lb. .19 - .20
80-100 mesh, bgs.....lb. .13½- .14½
5 tons, works.....lb. .15 - .16
smaller lots, works.....lb. .19½- .20½
import, Argent., 20-80 mesh, bgs., c.l., duty pd..lb. .12 - .12½
80-100 mesh, bgs., c.l., duty paid..lb. .12½- .13
French, 30 mesh, bgs., c.l., duty paid..lb. .16 - —
New Zealand, 20-30 mesh, c.l., bgs., duty paid..lb. .13¼- —

★ ★ ★ GENERAL CHEMICAL COMPANY ★ ★ ★

GENERAL CHEMICAL CERAMIC FLUORSPAR

General Chemical ceramic grade fluorspar contains a minimum of 95% CaF_2. The crude ore from which this General Chemical product is made is free from lead, zinc and sulfur. As produced by General Chemical Company, fluorspar contains approximately 2% moisture, a desirable feature in preventing dusting.

Approximate Screen Sizes
CERAMIC GRADE
on 48 mesh . . . . 10% max.
thru 100 mesh . . . . 60% max.

General Chemical Fluorspar is shipped in bags of 125 lbs. net and in bulk.

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Executive Offices:
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Sales Offices: Atlanta • Baltimore • Boston • Buffalo Charlotte (N. C.) • Chicago • Cleveland • Denver • Houston Kansas City • Los Angeles • Milwaukee • Minneapolis Montezuma (Ga.) • Philadelphia • Pittsburgh • Providence (R. I.) San Francisco • St. Louis • Utica (N. Y.) • Wenatchee (Wash.) Yakima (Wash.) • In Canada: The Nichols Chemical Co., Ltd. Montreal • Toronto • Vancouver

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Gentlemen: Kindly send me a copy of the 148 page General Chemical Products Book.

Name.....
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OP-240

Cassia, Batavia, No. 1, bls....lb. .16½- .17
shortstick, bls....lb. .14 - .14½
broken, bls....lb. .13½- .14
China, rolls, select, bls....lb. .10 - .10½
broken, extra, bls....lb. .10 - .10½
Saigon, bls....lb. .16½- .17
Cassia buds, cs....lb. .13½- .14
Cassia fistula, bskts....lb. .13 - .14
Castile soap, Italian, white, bars, 40-lb. cases..case.14.00 - —
powd., bbls....lb. .33 - .36
Castoreum, nat., cns....lb.15.00 -18.00
synth., bots....lb.19.00 - —
Castor beans, Brazilian, f.o.b. shipt. ports..ton.95.00 -98.00
Oil (see Oil, castor).
Pomace, dom., 6½% ammon., bgs., c.l., works..ton.17.50 - —
import, bgs., c.i.f. ports, shipment..ton.20.00 - —
Celery seed, French, bgs....lb. .17½- .18
Indian, bgs....lb. .14½- .15
Celluloid scrap (see Pyroxylin scrap).
Cellulose, acetate, flake, gran., cs., 5,000 lbs. and over, frt. alld..lb. .34 - —
100 to 4,950 lbs., same basis..lb. .35 - —
less than 100 lbs., works..lb. .36 - —
Acetate-butyrate, high (20-40% butyryl content), 100-lb. ctn., 5,000 lbs. and up, frt. alld..lb. .45 - —
1,000-4,900 lbs., frt. alld.lb. .46 - —
100-900 lbs., frt. alld...lb. .47 - —
smaller pkg., works....lb. .48 - —
low (up to 9.9%), 100-lb. ctn., 5,000 lbs. and up, frt. alld..lb. .41 - —
1,000-4,900 lbs., frt. alld.lb. .42 - —
100-900 lbs., frt. alld....lb. .43 - —
smaller pkg., works....lb. .44 - —
medium (10-19.9%), 100-lb. ctn., 5,000 lbs. and up, frt. alld..lb. .43 - —
1,000-4,900 lbs., frt. alld.lb. .44 - —
100-900 lbs., frt. alld....lb. .45 - —
smaller pkg., works....lb. .46 - —
acetate-propionate, high (20-40% propionyl content), 100-lb. ctn., 5,000 lbs. and up, frt. alld....lb. .45 - —
1,000-4,900 lbs., frt. alld.lb. .46 - —
100-900 lbs., frt. alld....lb. .47 - —
smaller pkg., works....lb. .48 - —
low (up to 9.9%), 100-lb. ctn., 5,000 lbs. and up, frt. alld.lb. .41 - —
1,000-4,900 lbs., frt. alld.lb. .42 - —
100-900 lbs., frt. alld....lb. .43 - —
smaller pkg., works....lb. .44 - —
medium (10-19.9%), 100-lb. ctn., 5,000 lbs. and up, frt. alld..lb. .43 - —
1,000-4,900 lbs., frt. alld.lb. .44 - —
100-900 lbs., frt. alld....lb. .45 - —
smaller pkg., works....lb. .46 - —
triacetate, flake, cs., 5,000 lbs. and over, frt. alld..lb. .34 - —
100 to 4,950 lbs., same basis..lb. .35 - —
less than 100 lbs., works, lb. .36 - —
Cerium hydrate, dms., works..lb. .60 - —
oxalate, USP, bbls., works..lb. .35 - —
kgs., works....lb. .37 - —
Chalk, precip., extra light, light, heavy, bgs., 50 lbs., c.l., f.o.b. works..lb. .02¾- —
cks., 250 lbs., c.l., f.o.b. works..lb. .03¼- —
Chamomile flowers, Hungarian, genuine, cs..lb. .35 - .40
Roman, bls....lb. .45 - .50
Charcoal, softwood, gran., bgs., c.l., divd., Ala., Del., Ga., Ky., Md., Miss., N. J., N. Y., N. C., S. C., Tenn., Va., W. Va..ton,32.40 - —
Colo. ....ton.29.00 - —
Conn., Me., Mass., N. H., R. I., Vt., ton.32.80 - —
Ill. (except river point), Minn., Neb., Wis., ton.27.00 - —
Indiana ....ton.28.00 - —
Mo., Okla., Tex. (except El Paso)....ton.25.00 - —
c.l., divd., Kansas, El Paso, Tex..ton.26.00 - —
Michigan ....ton.29.80 - —
Ohio ....ton.29.80 - —
Penn. ....ton.31.80 - —
Utah ....ton.66.00 - —
Willow, powd., bbls....lb. .06 - .07
Chestnut extract, clarif., 25% tan., bbls., c.l., works..lb. .02½- —
l.c.l., bbls., works....lb. .02¾- —
tanks, works....lb. .01¾- —
Chillies (see Pepper, red).
China clay, dom., dry-grd., air-float, 99.75%, 300 mesh, bgs., c.l., works..ton. 9.50 - —
l.c.l., works....ton.10.00 -16.00
bulk, c.l., works...ton. 7.60 - —
200 mesh, bgs., c.l., works..ton. 8.50 - —
l.c.l., works....ton. 9.50 -15.50
wet-grd., silk-bolt, 99.9%, 325 mesh, bulk, c.l., works..ton. 9.50 - —
paper bgs., c.l., works, ton.12.50 - —
import, white, lump, bulk, c.l., ex dock, Balto., Boston, Norfolk, Phila..ton.26.00 Nom.
powd., csks., l.c.l., ex dock, ton.39.00 Nom.
ex whse....ton.42.00 Nom.
Chloral hydrate, bots., 1,000 lbs., lb. .96 - 1.02
500 lbs....lb. .96 - 1.06
100 lbs....lb. .98 - 1.07
25 lbs....lb. 1.00 - 1.09
1-10 lbs....lb. 1.05 - 1.12
drms., 1,000 lbs....lb. .90 - —
500 lbs....lb. .93 - —
100 lbs....lb. .95 - —
Chlorinated rubber, standard, c.l., bgs., works..lb. .32 - —
75 lbs., bgs....lb. .35 - —
smaller lots, bgs....lb. .38 - —
Chlorine, liq., cyls., c.l., dlvd., N. Y..lb. .05¼- —
contracts, dlvd., N. Y..lb. .05¼- —
l.c.l., dlvd., N. Y....lb. .07¼- —
tanks, single unit, works, frt. equald..100 lbs. 1.75 - —
multiple unit, 3 or over, works, frt. equald..100 lbs. 1.90 - —
2, works, frt. equald., 100 lbs. 2.15 - —
1, works, frt. equald., 100 lbs. 2.60 - —
Chloracetophenone, tins, works.lb. 3.00 - 3.50
Chloroform, tech., 650-lb. drms.lb. .20 - —
100-lb. drms....lb. .22 - —
50-lb. drms....lb. .23 - —
USP, 650-lb. drms....lb. .30 - —
100-lb. drms....lb. .32 - —
50-lb. drms....lb. .33 - —

Chloropicrin, com'l, 180-lb. cyls., works..lb. .80 - —
100-lb. cyls., works....lb. .85 - —
5-25-lb. cyls., works....lb. 1.00 - 1.15
Chrome acetate, powd., 24%, bbls., divd..lb. .13¼- —
solut., 8½%, cs., bbls....lb. .05¾- —
Cake, bulk, c.l., works....ton.16.00 - —
Green (see Green, chrome).
Oxide (see Green, chrome).
Sulphate, pearls, dms., 100 lbs., lb. .40 - —
powd., dms., 100 lbs....lb. .45 - —
scales, dms., 100 lbs....lb. .45 - —
Trioxide (see Acid, chromic).
Yellow (see Yellow, chrome).
Chrysarobin, 5-lb. bot....lb. 5.00 - —
Cinchona bark, quill, USP, 10 in., medium, cs..lb. .70 - .75
20 in., thick, cs....lb. .70 - .75
20 in., medium, cs....lb. .80 - .85
USP, broken quill, red, bgs., lb. .27 - .28
yellow, bgs....lb. .27 - .28
Cinchonidine, crys., small cns., 100 ozs..oz. .66 - —
large, cns....100 ozs..oz. .90 - —
powd., cns....100 ozs..oz. .83 - —
Sulphate, N.F., cns.100 ozs..oz. .50 - —

Cinchonidine buyers must pay a surcharge of 4c. per oz., to cover present war risk insurance, higher ocean freight rates, and additional expenses over the cost of usual business. Changes in these controlling factors will be reflected in the surcharge invoiced.

Cinchonine, crys., small, cns., 100 ozs..oz. .58 - —
large, cns....100 ozs..oz. .62 - —
powd., cns....100 ozs..oz. .54 - —
Sulphate, N.F., cns.100 ozs..oz. .38 - —

Cinchonine buyers must pay a surcharge of 4c. per oz., to cover present war risk insurance, higher ocean freight rates and other expenses over the cost of usual business. Changes in these controlling factors will be reflected in the surcharge invoiced.

Cinchophen, USP, 5-lb. bxs., lb. 3.90 - —
1 lb., bots....lb. 3.42 - —
100 lbs., dms....lb. 3.15 - —
Cinnamic alcohol (see Alcohol, cinnamic).
Aldehyde, f.c.c., cbys....lb. .85 - .90
Cinnamon, Ceylon, 2 bls....lb. .18½- .19
3 bls....lb. .18 - .18½
Citral, bots., cns....lb. 1.40 - 3.10
Citrine ointment, jars, tubes...lb. .92 - 1.14
Citronellal, bots., dms....lb. .75 - .80
Citronellol, bots., dms....lb. 1.60 - 1.85
Clove, Ambayna, bgs....lb. .25 - .26
Madagascar, bls....lb. .23 Nom.
Zanzibar, bls....lb. .17 - .17½
Clover tops, bgs....lb. .30 - .35
Coaltar, coal-gas, crude, bbls., c.l., works..bbl. 7.50 - 7.75
l.c.l., works....bbl. 8.25 - 8.50
tanks, works....gal. .07½- .09
refd., bbls., c.l., works....bbl. 8.00 - 8.25
l.c.l., works....bbl. 8.75 - 9.00
tanks, works....gal. .08½- .10
water-gas, crude, dms., c.l., works..dm. 7.50 - —
l.c.l., works....dm. 8.25 - —
refd., dms., c.l., works....dm. 8.00 - —
l.c.l., works....dm. 8.75 - —
Cobalt acetate, bbls., kgs., divd., lb. .71 - —
Carbonate, powd., bgs., works, lb. 1.38 - —
Chloride, kgs., wks....lb. .76 - .80
Hydrate, bbls....lb. 1.78 - —
Linoleate, paste, 6%, dms....lb. .31 - —
solid, 8½% bbls....lb. .33 - —
Oleate, bbls....lb. .25 Nom.
Oxide, black, kgs....lb. 1.84 - —
Resinate, fused A, bbls....lb. .13½- —
1%, bbls....lb. .13 - —
2%, bbls....lb. .14 - —
3½%, bbls....lb. .17½- —
precip., dms., dlvd....lb. .34 - —
Sulphate, dms....lb. .65 - —
Cocaine, hydrochloride, 100 ozs., cns..oz. 9.75 - —
Cochineal, gray, bgs....lb. .37 - .38
Teneriffe, silver, bgs....lb. .38 - .39
Cocoa butter, bulk, c.l., bgs...lb. .13 - .13¼
Cocillana bark, bgs....lb. .40 - .45
Codeine, cns., 100 ozs....oz.11.70 - —
Hydrochloride, cns., 100 ozs..oz.10.50 - —
Phosphate, cns., 100 ozs....oz. 9.00 - —
Sulphate, cns., 100 ozs....oz. 9.50 - —
Codliver oil (see Oil, codliver).
Cohosh, black, root, bls....lb. .07 - .08
Blue, root, bls....lb. .07 - .08
Colchicine, bots., 4 ozs....oz.18.00 - —
single, ozs....oz.19.00 - —
Colchicum seed, bgs....lb. .35 - .37
Collodion, USP, dms., 325 lbs..lb. .12½- —
cns., 25 lbs....lb. .16 - —
Flexible, USP, dms., 325 lbs.lb. .14½- —
cns., 25 lbs....lb. .18 - —
Colocynth pulp, bls....lb. .55 - .56
Colombo root, bls....lb. .18 - .20
Coltsfoot leaves, bgs....lb. .15 - .16
Condurango bark, bgs....lb. .14 - .16
Conium leaves, bls....lb. .30 - .32
Copaiba balsam, Para, cns....lb. .34 - .35
S. A. USP, cns....lb. .36 - .37
Copper acetate, normal, bbls., divd..lb. .22 - —
smaller containers, dlvd..lb. .24 - —
Carbonate, 52-54%, bbls....lb. .1600 Nom.
Chloride, cryst., bbls....lb. .18 Nom.
Cyanide, tech., bbls....lb. .34 Nom.
Iodide, bots....lb. 5.15 - 5.19
Metal, electrolytic....lb. .11¾- —
Nitrate, cryst., bbls....lb. .17 Nom.
Oleate, precip., bbls....lb. .20 - —
Oxide, black, 79-80% bbls., tons, works..lb. .18¾ Nom.
Red, com'l., 80-88%, kgs., f.o.b. N. Y..lb. .20 Nom.
Resinate, precip., bbls....lb. .15 - .16
Stearate, precip., bbls....lb. .24½- .25½
Sulphate, 99% cryst., bbls., c.l., f.o.b. works..100 lbs. 4.60 - —
l.c.l., 16-50 bbls., same basis, 100 lbs. 4.75 - —
6-15 bbls., same basis, 100 lbs. 4.95 - —
1-5 bbls., same basis, 100 lbs. 5.20 - —
monohydrated, dms., c.l., dealers, f.o.b. works..100 lbs. 9.15 - 9.40
l.c.l. dealers....100 lbs.10.15 -10.40
Copperas, cryst., gran., bgs., c.l., works..ton.18.00 - —
bbls., c.l., works....ton.20.00 - —
l.c.l., 25 or over, works, 100 lbs. 1.55 - —
5-24, works....100 lbs. 1.65 - —
1-4, works....100 lbs. 2.00 - —
bulk, c.l., works....ton.14.00 - —
Copra, Coast, shipt....lb. .0180 Nom.
Coriander seed, Morocco, bgs..lb. .04¼- .04¾
bleached, bgs....lb. .09½- .10
Corn sugar, Tanner's chipped, bgs., c.l., dlvd..100 lbs. 2.99 - —
slabs, bbls., c.l....100 lbs. 2.91 - —
solid, bbls., c.l....100 lbs. 3.03 - —
Syrup, 42°, bbls., c.l....100 lbs. 3.02 - —
43°, bbls., c.l....100 lbs. 3.07 - —
Cornsilk, bls....lb. .14 - .15
Corrosive sublimate, cryst., dms., 50 lbs. or more..lb. 2.04 - —
gran., powd., dms., 50 lbs. or more..lb. 1.99 - —
Cottonroot bark, bls....lb. .11 - .12

Cottonseed hull ash, 32-36% pot-ash, bgs., dlvd., unit-ton. 1.10 - —
Coumarin, 5 lbs., or more, 25-lb. cns..lb. 2.75 - 3.00
5-lb. cns....lb. 2.85 - 3.10
1-lb. cns....lb. 3.00 - 3.25
1-oz. cns....lb. 3.35 - 3.60
less than 5 lbs., cns....lb. 4.15 - 4.65
Cramp, bark, genuine, bls....lb. .23 - .24
so-called, bls....lb. .06 - .07
Cranesbill root, bls....lb. .15 - .16
Cream tartar, gran. or powd., bbls., 5,000 lbs., one shipm't, lb. .28½- —
smaller lots, bbls....lb. .28¾- —
kgs....lb. .29¼- —
Creosote, beechwood, bots....lb. .70 - .75
Hardwood, USP, bots....lb. .45 - .47
Pine, dms....gal. .28 - —
Carbonate, bots., cbys....lb. 1.40 - 1.75
Creosote, oil, crude, tanks, works, gal. .13½- .14½
Coaltar, solution, tanks, works, gal. .122 - .132
refd., bbls., l.c.l., works..gal. .25 - —
tanks, works....gal. .18 - .18½
Cresol, USP, dms., c.l., works..lb. .09¾- —
l.c.l., same basis....lb. .10¼- —
special resin grade, dms., c.l., works..lb. .08¾- —
l.c.l., same basis....lb. .09¼- —
Crotonaldehyde, 97%, 55 and 110 gal. c.l., works..lb. .11 - —
l.c.l., works....lb. .12 - —
5 and 10 gal. dms., works..lb. .15 - —
Cube root, powd., 5% rotenone, bbls., f.o.b. N.Y.C., frt. equaled, with shipments from Newark and Balto. Prices for Pacific Coast are plus frt., 10,000 lbs. or more..lb. .24 - .25
2,000 lbs. to 10,000 lbs..lb. .25 - .26
1,000 lbs. to 2,000 lbs..lb. .26 - .27
500 lbs. to 1,000 lbs....lb. .27 - .28
4% rotenone prices are 4c. per lb. less.

Cube, powd., contracts have no protection against decline in price. Part deliveries against contract are billed at price for smaller quantities, subject to adjustment when contract quantity is reached.

Cubeb berries, XX, bgs....lb. .42 - .44
powd., cs....lb. .47 - .48
Culver's root, bls....lb. .15 - .16
Cumin seed, Malta, bgs....lb. No stocks
Morocco bgs....lb. .15¼- .15¾
Cutch, Borneo, extract, solid, contract, f.o.b. N. Y., duty paid..lb. .04½- —
Cyanamide, 22%, N_2, pulv., bgs., dlvd., contracts, N_2, unit ton. 1.27½- —
Cyanide-chloride, mixture, 45%, gran., dms..lb. .10¾- —
lump, dms....lb. .09¾- —
75%, gran., dms....lb. .15 - —
Cyclohexane, 98-100%, dms.,works, frt. alld. E. of Rockies...lb. .25 - —
Cyclohexanol,98-100%, dms.,works, frt. alld. E. of Rockies...lb. .30 - —
Cyclohexanone, 98-100%, dms., works, frt. alld. E of Rockies..lb. .58 - —

D

Damiana leaves, bls....lb. .30 - .35
Dandelion root, German, bls...lb. .42 - .45
Deertongue leaves, bls....lb. .15 - .16
Degras, common, dom., bbls...lb. .09 - .10
English, bbls....lb. .09 - .10
neutral, dom., bbls....lb. .15 - .18
English, bbls....lb. .15 - .18
Derris root, powd., 5% rotenone, bbls., f.o.b. N.Y.C., frt. equal'd, with shipments from Newark and Balto. Prices for Pacific Coast are plus frt., 10,000 lbs., or more..lb. .24 - .28
2,000 lbs. to 10,000 lbs...lb. .26 - .30
1,000 lbs. to 2,000 lbs.....lb. .28 - .32
200 lbs. to 1,000 lbs.....lb. .30 - .34
4% rotenone prices are 6c. per lb. less.

Derris root, powd., contracts give no protection against decline in price. Part deliveries against contracts are billed at price for such smaller quantities, subject to adjustment when contract quantity is reached.

Derris, extract, 25% rotenone, bulk, cns..lb. 4.00 - 5.00
15% rotenone, bulk, cns.....lb. 2.25 - 3.25
Dextrin, British gum, c.l., f.o.b. Chicago..100 lbs. 3.65 Nom.
l.c.l., f.o.b. Chicago..100 lbs. 3.75 Nom.
Corn, canary, bgs., c.l., f.o.b. Chicago..100 lbs. 3.40 Nom.
l.c.l., f.o.b. Chicago..100 lbs. 3.60 Nom.
white, bgs., c.l., f.o.b. Chicago..100 lbs. 3.35 Nom.
l.c.l., f.o.b. Chicago..100 lbs. 3.55 Nom.
Potato, import, bgs....lb. .07¾ Nom.
Diacetone (see under Alcohol).
Diacetyl, bots....lb.10.00 -11.00
Diamyl ether, dms., c.l., works, lb. .085 - —
l.c.l., works....lb. .092 - —
tanks, works....lb. .075 - —
Oxalate, dms., l.c.l., works..lb. .30 - —
Phthalate, dms., c.l., dlvd...lb. .21 - —
l.c.l., dlvd....lb. .21½- —
tanks, dlvd....lb. .20 - —
Sulphide, dms., l.c.l., works..lb. 1.10 - —
Diamylamine, dms., c.l., works, lb. .47 - —
l.c.l., works....lb. .48 - .50
tanks, works....lb. .45 - —
Diamylene, dms., c.l., works...lb. .095 - —
l.c.l., works....lb. .102 - —
tanks, works....lb. .085 - —
Diamylnaphthalene, dms., l.c.l., works..lb. .20 - —
Diamylphenol (2, 4), dms., c.l., works..lb. .17 - —
l.c.l....lb. .20 - —
Diatomaceous earth, dom., bgs., c.l., Pacific cst., works, ton.22.00 -35.00
l.c.l., ex whse....ton.45.00 -150.00
import, bgs., c.l., c.i.f....ton.23.00 Nom.
Dibutylamine, dms., c.l., works, lb. .50 - —
l.c.l....lb. .51 - .53
tanks, works....lb. .48 - —
Dibutyl ether (see Ether, butyl).
Phthalate, dms., c.l., dlvd...lb. .19 - —
l.c.l., dlvd....lb. .19½- —
tanks, dlvd....lb. .18 - —
cns., works....lb. .23½- .25½
Sebacate, dms., works....lb. .45 - —
Tartrate, dom., dms....lb. .50 - —
Dicalcium phosphate (see Calcium phosphate dibasic).
Dichlorethyl ether, dms., c.l., works..lb. .15 - —
l.c.l., works....lb. .16 - —
tanks, works....lb. .14 - —
Dichloropentane, dms., c.l., works, lb. .0221- —
l.c.l....lb. .04 - —
tanks....lb. .025 - —
Diethanolamine, dms., c.l., works, lb. .23½- —
l.c.l., works....lb. .24½- —
tanks, works....lb. .22½- —

Cassia—Dyes, Coaltar

Diethylamine, dms., l.c.l., works, lb. .70 - —
Diethyl carbonate, coml., dms.lb. .25 - —
refd., 99%, dms....lb. .35 - —
Carbinol (see Carbinol).
Phthalate, dms., c.l., frt. alld. lb. .19 - —
l.c.l. ....lb. .19½- —
tanks ....lb. .18 - —
Sulphate, dms., c.l., works...lb. .13 - —
l.c.l., works....lb. .14 - —
tanks ....lb. .12 - —
Diethylanilin, dms....lb. .40 - —
Diethyleneglycol, dms., c.l., works, lb. .14½- —
l.c.l., works....lb. .15½- —
Monobutylether, dms., works.lb. .22½- .24½
Monoethylether, d m s., c.l., works..lb. .14½- —
l.c.l., works....lb. .15½- —
tanks, works....lb. .13½- —
Digitalis leaves, dms....lb. .35 - .40
Diglycol, laurate, c.l....lb. .16 - —
Oleate, light, bbls., c.l....lb. .17 - —
Stearate, bbls., c.l....lb. .22 - —
Di-isobutyl ketone, dms., works, lb. .19 - —
Dillseed, recleaned, bgs....lb. .09½- .10
Dimethyl phthalate, dms., c.l., divd..lb. .18½- —
l.c.l., dlvd....lb. .19 - —
tanks, dlvd....lb. .17½- —
Dimethylanilin, dms., c.l....lb. .23 - —
l.c.l., dms....lb. .24 - —
Dimethylamine, dms., c.l., dlvd., lb. 1.00 - —
l.c.l., dlvd....lb. 1.05 - —
Dimethylethyl carbinol (see Carbinol)
Dinitrobenzene, bbls., 80° min., lb. .18 - —
Dinitrochlorobenzene, dms....lb. .14 - —
Dinitronapthalene, kgs....lb. .32 - .36
Dinitrophenol, bbls....lb. .22 - —
Dinitrotoluene, dms....lb. .15½- —
oily, dms....lb. .09 - —
Diorthotoluoiguanidin, dms., 2,000 lbs. or over, divd..lb. .44 - —
600-1,950 lbs., dlvd....lb. .46 - —
150-450 lbs., dlvd....lb. .47 - —
Dioxan, dms., c.l., frt. alld....lb. .20 - —
l.c.l., same basis....lb. .21 - —
tanks, same basis....lb. .19 - —
Dip oil (see Tar acid oil).
Dipentene, dms....gal. .47 - .50
tanks ....gal. .41 - —
dest. dist., dms....gal. .45 - .48
tanks ....gal. .38 - —
Diphenyl, bbls., c.l., works....lb. .15 - —
l.c.l., works....lb. .16 - .20
Oxide, perfume grade, cns...lb. .50 - .55
Diphenylamine, bbls....lb. .31 Nom.
Diphenylguanidin, dms., 2,000 lbs., or over, divd..lb. .35 - —
600-1,950 lbs., dlvd....lb. .36 - —
150-450 lbs dlvd ....lb. .37 - —
Diphenylmethane, bots....lb. 1.40 - 3.00
Dimethylethyl carbinol (see Carbinol).
Doggrass root, cut, bls....lb. .16 - .17
Dogwood bark, Jamaica, bls., lb. .07 - .09
Dover's powder, USP, cns....lb. 2.75 - 2.80
Dragon's blood, mass, cs....lb. .65 - .70
reeds, thin, cs....lb. 1.05 - 1.10
Dyes, coaltar (certified colors) for foods, drugs and cosmetics:—
Blue, FD&C blue, No. 1, cns..lb.13.50 - —
FD&C blue, No. 2, cns....lb.13.50 - —
FD&C green, No. 2, cns....lb.17.50 - —
FD&C green, No. 3, cns....lb.27.50 - —
Green, FD&C green, No. 1, cns. lb.13.50 - —
Orange, FD&C orange, No. 1, cns..lb. 2.90 - —
FD&C orange, No. 2 cns..lb. 3.65 - —
Red, FD&C red, No. 1, cns..lb. 4.00 - —
FD&C red, No. 2, cns....lb. 3.15 - —
FD&C red, No. 3, cns....lb.17.50 - —
FD&C red, No. 4, cns....lb. 5.75 - —
FD&C red, No. 32, cns...lb. 3.70 - 4.15
Yellow, FD&C yellow, No. 1, cns..lb. 3.50 - —
FD&C yellow, No. 3, cns..lb. 2.65 - —
FD&C yellow, No. 4, cns..lb. 2.65 - —
FD&C yellow, No. 5, cns..lb. 3.15 - —
FD&C yellow, No. 6, cns..lb. 3.15 - —
Dyes, coaltar (certified colors) for drugs and cosmetics:—
Black, D&C black, No. 1, lb. 8.00 - 8.35
Brown, D&C brown, No. 1, cns. lb.12.35 - —
Green, D&C green, No. 5, cns. lb.12.35 - —
D&C, green, No. 6, cns....lb.12.35 - —
Orange, D&C orange, No. 4, cns..lb. 3.35 - —
D&C orange, No. 4, cns....lb.15.35 - —
D&C orange, No. 10 cns....lb.15.35 - —
D&C orange, No. 11 cns...lb.17.35 - —
Red, D&C, red, No. 17, cns..lb. 3.35 - —
D&C, red No. 19, cns.....lb.15.35 - —
D&C red, No. 22, cns.....lb. 3.35 - —
D&C red, No. 37, cns.....lb.12.35 - —
Yellow D&C yellow, No. 7, cns. lb. 3.35 - —
D&C yellow, No. 8, cns....lb. 3.35 - —
D&C yellow, No. 11.....lb.10.00 -10.35
Dyes, coaltar (certified colors) for external use drugs and cosmetics:—
Blue,, Ext.D&C blue, No. 1, cns..lb.12.35 - —
Green, Ext.D&C, green, No. 1, cns..lb.12.35 - —
Red, Ext. D&C, red, No. 1, cns..lb.10.35 - —
Ext.D&C, red, No. 10, cns.. lb.12.35 - —
Ext.D&C, red, No. 11, cns. lb.12.35 - —
Ext.D&C, red, No. 13, cns.. lb.12.35 - —
Yellow, Ext.D&C, yellow, No. 1, cns..lb. 3.35 - —
Dyes, coaltar, for general uses (numbers are those of Colour Index scale):—
36 Chrome yellow 2G....lb. .65 - .70
40 Chrome yellow R.....lb. .80 - 1.00
53 Victoria violet.....lb. .80 - 1.00
165 Lake red C.....lb. .80 - .95
176 Fast red A.....lb. .56 - .60
180 Fast red VR.....lb. 1.50 - 1.60
189 Lake red R, paste....lb. .85 - .90
189 Lake red R, powd....lb. 3.00 - 3.10
202 Chrome blue black U..lb. .32 - .40
204 Chrome black A.....lb. 1.75 - 2.00
208 Fast red blue R.....lb. .75 - 2.00
216 Chrome red B.....lb. 1.75 - 2.00
262 Cloth red 2B.....lb. .60 - .80
289 Fast cyanin 5R.....lb. .90 - 1.00
299 Chrome black F.....lb. .60 - .65
307 Fast cyanin black B.lb. .80 - .85
326 Direct east scarlet....lb. 2.00 - 2.25
304 Paper yellow.....lb. .83 - .90
365 Chrysophenin G.....lb. .58 - .70
394 Direct violet N.....lb. 1.25 - 1.35
382 Direct scarlet B.....lb. 1.50 - 1.75
387 Direct violet B.....lb. 1.00 - 1.30
401 Developed black BHN, lb. .45 - .60
406 Direct blue 2B.....lb. .25 - .30
415 Direct orange R.....lb. .60 - .70
419 Direct fast red F.....lb. .75 - .85

Dyes, Coaltar—Gum, Copal

Dyes, coaltar, for general uses (numbers are those of Color Index scale):—
420 Direct brown M.....lb. 1.00 - 1.10
448 Benzo purpurin 4B...lb. .40 - .42
486 Benzo purpurin 10B..lb. .40 - .50
502 Direct azurin G.....lb. .75 - .80
512 Direct blue RD.....lb. .80 - 1.00
518 Direct pure blue 6B..lb. 1.10 - 1.25
520 Direct pure blue.....lb. .50 - 1.00
529 Direct fast, black, FF.lb. .85 - 1.00
581 Direct black EW.....lb. .35 - .45
582 Direct black RX.....lb. .75 - .80
593 Direct green B.....lb. .75 - .80
594 Direct green G.....lb. 1.00 - 1.05
596 Direct brown 3GO....lb. .35 - 1.00
620 Direct yellow R.....lb. 1.25 - 1.50
698 Acid violet.....lb. 1.00 - 3.00
512 Primulin .....lb. .50 - .52
814 Direct fast yellow....lb. 2.00 - 2.25
845 Nigrosin (water soluble), lb. .35 - .50
1177 Indigo, 20 p. e. paste.lb. .15 - .16
Benzo fast black L...lb. .90 - 1.00
Sulphur black.....lb. .20 - .25
Sulphur blue.....lb. .40 - 1.00
Sulphur brown.....lb. .25 - .50
Sulphur maroon.....lb. .40 - —
Sulphur olive.....lb. .25 - .54
Sulphur tan.....lb. .30 - .50
Sulphur yellow.....lb. .30 - .50
Zambesi black.....lb. .75 - .80

Dyes, coaltar, for stains, oil-soluble (prices in barrels of 100 lbs.; lots of 25 pounds to a barrel are 3c. per lb. higher; f.o.b. sellers' works or warehouse)
Black:—
865 Nigrosin derivatives..lb. .38 - .63
Blue:—
1075 Alizarin astrol base..lb.15.00 - —
1078 Alizarin cyanin green base..lb. 6.00 - —
Browne:—
Brown .....lb. 1.15 - —
Green:—
1078 Alizarin cyanin green.lb. 5.00 - —
.... Green .....lb. .75 - —
Orange:—
24 Sudan I.....lb. .75 - —
.... Orange, red shade....lb. .75 - —
Red:—
75 Sudan II.....lb. 1.05 - —
258 Sudan IV.....lb. .95 - —
749 Rhodamine B (oil pink), lb. 2.50 - —
1080 Anthraquinone violet base..lb. 6.00 - —
680 Oil violet.....lb. .00 - —
Yellow:—
15 Amidoazobenzene yellow..lb. .90 - —
17 Amidoazotoluene yellow, lb. .75 - —
61 Yellow OB.....lb. 1.40 - —

Spirit-soluble (prices in barrels of 250 lbs. each; lots of 25 lbs. to a barrel, 3c. per lb. higher; f.o.b. sellers' works or warehouse).
Black:—
864 Nigrosin .....lb. .38 - .44
Blue:—
860 Indulin .....lb. .60 - .70
Brown:—
331 Bismarck brown.....lb. 1.50 - —
Green:—
637 Malachite green base.lb. 2.00 - —
Orange:—
20 Chrysoidin G.....lb. .95 - —
21 Chrysoidin R.....lb. .95 - —
Red:—
677 Fuchsin, magenta base, lb. 7.25 - —
749 Rhodamine B.....lb. 4.75 - —
Yellow:—
67 Amidoazotoluene yellow, lb. .75 - —
655 Auramine .....lb. 2.00 - —
800 Chinolin yellow SS...lb. 2.00 - —
Violet:—
680 Methyl violet base...lb. .90 - —

Water-soluble (prices in barrels of 250 lbs. each; lots of 25 lbs. to a barrel, 3c. per lb. higher; f.o.b. sellers' works or warehouse).

Dyes, coaltar, for stains, oil soluble (prices in barrels of 100 lbs.; lots of 25 pounds to a barrel are 3c. per lb. higher; f.o.b. sellers' works or warehouse).
Black:—
246 Naphthol blue black S, lb. .50 - —
873 Methylene gray.....lb. 1.50 - —
Blue:—
714 Patent blue A.....lb. 1.45 - —
729 Victoria blue B.....lb. 2.00 - —
861 Indulin .....lb. .87 - —
909 New blue R.....lb. 1.30 - —
922 Methylene blue.....lb. 1.00 - —
1054 Alizarin saphirol B...lb. 1.90 - —
1180 Indigotin IA.....lb. .85 - —
Brown:—
234 Resorcin brown Y....lb. .65 - —
235 Resorcin dark brown R, lb. .66 - —
231 Bismarck brown G...lb. .40 - .52
332 Bismarck brown R...lb. .40 - .52
793 Phosphin .....lb. 4.65 - —
Green:—
5 Naphthol green B....lb. 1.00 - —
657 Malachite green.....lb. 1.35 - —
662 Brilliant green.....lb. 2.00 - —
666 Guinea green B.....lb. 1.15 - —
737 Wool green S.....lb. .58 - —
924 Methylene green B...lb. 1.55 - —
1078 Alizarin cyanin green, lb. 2.35 - —
Orange:—
10 Chrysoidin G.....lb. .40 - —
21 Chrysoidin R.....lb. .37 - —
27 Orange G.....lb. .50 - —
151 Orange Y.....lb. .30 - —
161 Rrange R.....lb. .34 - —
31 Amidonaphthol red G.lb. .42 - —
37 Amidonaphthol red 6B, lb. .68 - —
79 Popceau R.....lb. .48 - —
88 Fast red B.....lb. 1.05 - —
176 Fast red A.....lb. .54 - —
179 Azorubin .....lb. .60 - .62
183 Crocein scarlet 3BX..lb. .72 - .75
185 Cochineal red A.....lb. .60 - —
252 Brilliant crocein M...lb. .68 - —
677 Fuchsin .....lb. 2.10 - —
749 Rhodamine B.....lb. 3.50 - —
752 Rhodamine 6G.....lb. 4.50 - —
768 Eosin G.....lb. 1.50 - —
841 Safranin .....lb. 1.45 - —
Violet:—
680 Methyl violet B.....lb. .75 - —
681 Crystal violet C.....lb. 1.75 - —
695 Acid violet 4BN.....lb. .88 - —
Yellow:—
10 Naphthol yellow S...lb. .88 - —
138 Metanil yellow.....lb. .53 - —
636 Fast light yellow.....lb. 1.25 - —
639 Xylene light yellow..lb. 1.15 - —
640 Tartarzin .....lb. .80 - —
655 Auramine .....lb. 1.27 - —

Dyes, natural (see name of article).

E

Echinacea root, bls.....lb. .18 - .19
Egg albumen (see Albumen).
yelk, dom., bbls.....lb. .60 - .62
imported .....lb. .56 - .58
Elder flowers, bright, bls.....lb. .40 - .45
Elecampane root, bls.....lb. .10 - .11
Elm bark, grinding, bls.....lb. .11 - .12
powd., bbls., bxs.....lb. .20 - .21
select, bndls.....lb. .19 - .21
Emetine hydrochloride, bots...oz.19.00 -19.50
Ephedra, bls.....lb. .10 - .10½
Ephedrine, tins, 1,000 ozs.....oz. 1.50 - —
tins, 100 ozs.....oz. 1.60 - —
Hydrochloride, tins, 1,000-oz. lots..oz. 1.25 - —
tins, 100-oz. lots.....oz. 1.35 - —
Sulphate, cryst., tins, 1,000-oz. lots..oz. 1.25 - —
tins, 100-oz. lots.....oz. 1.35 - —
Epsom salt, tech., bgs....100 lbs. 1.80 - —
bbls. .....100 lbs. 1.90 - —
USP, cryst., dom., bgs., c.l., 100 lbs. 2.00 - —
l.c.l., 5,000 lbs. 1 withdrawal..100 lbs. 2.25 - —
smaller lots.....100 lbs. 2.50 - —
bbls., c.l.....100 lbs. 2.10 - —
l.c.l., 5,000 lbs. 1 withdrawal..100 lbs. 2.35 - —
smaller lots.....100 lbs. 2.60 - —
kgs., c.l.....100 lbs. 2.35 - —
l.c.l., 5,000 lbs. 1 withdrawal..100 lbs. 2.60 - —
smaller lots.....100 lbs. 2.85 - —
dried, dom., bgs., l.c.l....lb. .08 - .09
Ergot, USP, cns., dms.....lb. 3.85 - 4.00
Eserine, bots.....oz.42.00 - —
Salicylate, bots.....oz.36.00 - —
Sulphate, bots.....oz.36.00 - —
Ether, acetic (see Ethyl acetate).
Butyl, l.c.l., dlvd.....lb. .25 - —
Ethyl (see Ether, sulphuric).
Nitrous, conc., bots., 100 lbs., lb. .68 - —
Sulphuric, conc., dms., 120 lbs. lb. .09 - —
cns., 27 lbs.....lb. .14 - —
synth., dms., c.l., works...lb. .08 - —
l.c.l., works.....lb. .09 - —
USP, anesthesia, dms., 27 lbs., lb. .26 - —
USP, 1880, dms.....lb. .39 - .40
washed, dms.....lb. .37 - .38
Ethyl acetate, 85-90%, dms., c.l., frt. alld..lb. .075 - —
l.c.l., frt. alld.....lb. .08 - —
tanks, frt. alld.....lb. .065 - —
95-98%, dms., c.l., frt alld..lb. .0775- —
l.c.l., frt. alld.....lb. .0825- —
tanks, frt. alld.....lb. .0675- —
USP, XI, dms., 460 lbs.....lb. .09 - —
cns., 35 lbs.....lb. .13 - —
Acetoacetate, dms., c.l., wks.lb. .27½- —
l.c.l., dms., works.....lb. .28 - —
Bromide, tech., dms.....lb. .50 - .55
Caprosate, cns.....gal. 1.00 - —
Chloride dms.....lb. .18 - .20
Cinnamate, cns.....lb. 3.20 - 4.00
Crotonate, 55 gal. dms., dlvd., lb. .35 - —
Formate, cns., dms.....lb. .23 - .24
5 and 10 gal. dms., dlvd....lb. .75 - —
1 gal. cns.....lb. 1.00 - —
Iodide, bots.....lb. 3.50 - 3.65
Lactate, 55-gal. dms., works, lb. .33½- —
5-gal. dms., works.....lb. .37½- .39½
Oxalate, dms., frt. alld.....lb. .25 - —
Silicate, l.c.l., dms., works..lb. .77 - —
Vanillin, 25-lb. lots, cns.....lb. 6.00 - —
5-lb. lots.....lb. 6.05 - —
1-lb. lots, cns.....lb. 6.15 - —
Ethylcellulose, contracts, bgs., c.l., frt. alld..lb. .45 - —
contracts, 500 lbs. or more, frt. alld..lb. .47 - —
500 lbs. or more, frt. alld..lb. .48 - —
100 to 499 lbs., frt. alld..lb. .50 - —
smaller lots, works.....lb. .55 - —
Ethylene bromide, dms.....lb. .65 - .70
Dichloride, dms., c.l., works, E. of Rockies, frt. alld..lb. .0595- —
West of Rockies, same basis—lb. .0644- —
l.c.l., works, E. of Rockies, frt. alld..lb. .0694- —
West of Rockies, same basis..lb. .0743- —
Ethyleneglycol, dms., c.l.....lb. .14½- —
l.c.l. .....lb. .15½- .18½
tanks .....lb. .13½- —
Monobutylether, dms., c.l., works, lb. .16½- —
l.c.l., works.....lb. .17½- .20½
tanks, works.....lb. .15½- —
Monoethylether, dms., c.l., works, lb. .14½- —
l.c.l., works.....lb. .15½- .18½
tanks, works.....lb. .13½- —
Monoethylether, acetate, dms., c.l., works..lb. .11½- —
l.c.l., dms.....lb. .12½- .15½
tanks, works.....lb. .10½- —
Monomethylether, dms., c.l., works..lb. .15½- —
l.c.l., works.....lb. .16½- —
tanks, works.....lb. .14½- —
Ethylidinanilin, dms.....lb. .45 - .47½
Eucalyptol, cns., dms.....lb. .85 Nom.
Eucalyptus leaves, bls.....lb. .13 - .15
Eugenol, cns., dms.....lb. 2.25 - 2.30
Euphorbia, bls.....lb. .13 - .15

F

Feldspar, enamel, 100 mesh, bulk, works..ton.14.00 -17.50
l.c.l., minimum 2 tons..ton.17.00 -20.50
glass, 20 mesh, bulk, works.ton. 9.75 -13.25
l.c.l., minimum 2 tons...ton.12.75 -16.25
pottery, bulk, Me., works...ton.17.00 -19.00
N.C., works.....ton.17.00 -19.00
l.c.l., minimum 2 tons..ton.20.00 -22.00
Fennel seed, Indian, bgs.....lb. .14¼- .14¾
German, large, bgs.....lb. .33 - .34
Fenugreek seed, bgs.....lb. .06 - .06½
Ferric, sulphate, anhyd., c.l., works..ton.35.00 - —
l.c.l. .....ton.40.00 - —
Film scrap, colors, dark, cs., 1,000 lbs., or over, works..lb. .11½- —
smaller lots, works...lb. .13 - —
light, cs., 1,000 lbs. or over, works..lb. .12½- —
smaller lots, works....lb. .14 - —
water white, cs., 1,000 lbs. or over, works..lb. .13½- —
smaller lots, works...lb. .15 - —
Fir balsam, Canada, cns.....gal.12.75 -13.00
Oregon, bbls.....gal. 1.10 - 1.15
Fish berries, bgs.....lb. .15 - .17
Fish scrap, menhaden, dried, 11-12% ammon., 15% bone phos., bulk, Chesapeake factories, contracts, futures..unit-ton. 4.25 Nom.
grd., 11-12% ammon., 15% bone phos., bgs., f.o.b. Balto..ton.59.00 - —
wet, acidulated, 6-7% ammon., 3-% phosphor. acid, bulk, So. Atlantic factories, contracts..unit-ton. 3.00 & .50
sardine, meal, Japanese, 11½% ammon., bgs., c.i.f. ports, Feb. shipt..ton.51.00 - —
spot..ton.51.00 - —
Flake, white, bbls., kgs.....lb. .10¼- —
Fleaseed, French, black, bgs..lb. .20 - .21
Indian, blonde, bgs.....lb. .09 - .10
Fluorspar, dom., No. 1 ground, bulk, 95-98%, f.o.b. mines, net ton.32.60 - —
washed gravel, 85.5 f.o.b. Ky. Ill.-Ky.mines..net ton.21.00 - —
No. 2, lump, 85.5 f.o.b. Ky. and Ill., mines..net ton.21.00 - —
imported, 85.5, duty paid, short ton.25.00 Nom.
Formaldehyde, bbls., c.l., works, lb. .05¾- —
l.c.l., works.....lb. .06¼- —
dms., c.l., works.....lb. .05¼- —
l.c.l., works.....lb. .05¾- —
tanks, works.....lb. .04½- —
Fringetree bark, bls.....lb. .14 - .15
Fullers earth, dom., bgs., c.l., f.o.b. Fla., Ga., mines..ton.10.00 - —
import, bgs., c.l., ex dock.ton.25.00 Nom.
l.c.l., ex whse.....ton.32.00 Nom.
Furfural, refd., dms., c.l., works, lb. .15 - —
l.c.l., works.....lb. .17½- .25
tech., dms., contracts, 150,000 lbs..lb. .10 - —
c.l., works.....lb. .12½- —
l.c.l., works.....lb. .15 - .20
tanks, works.....lb. .09 - —
Fusel oil, refd., dms., incl., dlvd., lb. .16 - .17½
Fustic extract, cryst., bbls....lb. .24 - .28
liquid, bbls.....lb. .10½- .14
solid, dms.....lb. 19 - .31

G

G salt, bbls.....lb. .45 - —
Galangal root, bls.....lb. .11 - .12
Gambier, common, cases.....lb. .07 Nom.
plantation, cases.....lb. .10 Nom.
Cubes, Singapore, cases.....lb. .10 Nom.
extract, bbls. .....lb. .09½- .12
Gasoline, at refinery:—
Bayonne, US motor, below 65 octane, tanks..gal. .06½- .0780
65 octane and above, tanks, gal. .06¾- .0735
California, 54-58, tanks...gal. .06½- .08
Gulf Coast, U. S. Motor, bulk, gal. .05¼- —
60-62, 390 e.p., bulk, export, gal. .05¼- —
70-72, 400 e.p., bulk, export, gal. .06½- —
63-67, 375 e.p., bulk, export, gal. .05⅝- —
Louisiana-Arkansas, US motor, 62 octane, tanks..gal. .04 - .04¼
63-66 octane, tanks....gal. .04¼- .04½
67-69 octane, tanks....gal. .04½- .04¾
70-72 octane, tanks....gal. .04⅞- .05¼
Oklahoma-Texas, US motor, 62 octane and below, tanks, gal. .03¼- .04
third grade, tanks.....gal. .03¼- .04
63-66 octane, tanks....gal. .03½- .04½
67-69 octane, tanks....gal. .03⅝- .04⅝
70-72 octane, tanks....gal. .04 - .04¼
U. S. motor, 18-lb. v.p., tanks..gal. .05¼- .05¼
22-lb. v.p., tanks.....gal. .04¾- —
26-70 lb. v.p., tanks...gal. .04 - .04¼
below 60 octane, tanks.gal. .05 - —
65 octane, tanks.....gal. .07 - —
52-54 450 e.p., naphtha, tanks..gal. .05¼- —
natural, 12-lb. v.p., tanks, gal. .02⅝- .02¾
14-lb. v.p., tanks.....gal. .02 - .02¼
Gelatin, silver, cs.....lb. .42 - .43
Geisemium root, bls.....lb. .14 - .15
Gentian root, bls.....lb. .14 - .15
grd., bbls., bxs.....lb. .16 - .17
powd., bbls., bxs.....lb. .17 - .18
Geraniol, cns., dms.....lb. .60 3.00
Geranyl acetate, bots., dms...lb. 1.20 - 2.50
Ginger root, African, bgs.....lb. .10 - .10½
Cochin, leman, bgs.....lb. .09½ Nom.
Jamaica, bold, bgs.....lb. .12 - .13
grinding, bright, bgs.....lb. .09½- .10
medium, bgs.....lb. .09¾- .10¼
Japanese, bgs.....lb. .08½- .09
Ginseng root, wild, Southern, cs., lb.12.00 -13.00
Glauber's salt, anhyd. (see Soda Sulphate).
cryst., dom., bgs., bbls., c.l., works..100 lbs. .95 - 1.18
5 tons or over, works.... 100 lbs. 1.05 - 1.25
less than 5 tons, works, 100 lbs. 1.15 - 1.35
import, bgs.....100 lbs. No prices
Glue, bone, calcimine type, 24 millipoise, 36 jelly-grams, bgs., c.l., dlvd..lb. .13½- —
l.c.l., dlvd.....lb. .14 - —
36/58, bgs., c.l., dlvd.....lb. .13 - —
l.c.l., dlvd.....lb. .13½- —
58/82, bgs., c.l., dlvd.....lb. .14½- —
l.c.l., dlvd.....lb. .15 - —
82/108, bgs., c.l., dlvd....lb. .15 - —
l.c.l., dlvd.....lb. .15½- —
hide, calcimine type, 58 millipoise, 135 jelly-grams, bgs., c.l., dlvd., East, Middlewest..lb. .15 - —
l.c.l., same basis.....lb. .15½- —
60/164, bgs., c.l., same basis, lb. .16¼- —
l.c.l., same basis.....lb. .17 - —
67/122, bgs., c.l., same basis, lb. .17½- —
l.c.l., same basis.....lb. .18 - —
75/222, bgs., c.l., same basis, lb. .18½- —
l.c.l., same basis.....lb. .19½- —
88/251, bgs., c.l., same basis, lb. .19½- —
l.c.l., same basis.....lb. .20½- —
92/283, bgs., c.l., same basis, lb. .20½- —
l.c.l., same basis.....lb. .21½- —
102/315, bgs., c.l., same basis, lb. .21 - —
l.c.l., same basis.....lb. .22 - —
113/347, bgs., c.l., same basis, lb. .22 - —
l.c.l., same basis.....lb. .23 - —
125/379, bgs., c.l., same basis, lb. .23 - —
l.c.l., same basis.....lb. .24 - —
Glue prices for barrel packing, ½c. lb. higher; grinding charge, 20-40 mesh, ½c. lb.; 60 mesh, 1c. lb.
Glycerin, CP., cns., l.c.l.....lb. .14½- .15
dms., c.l., dlvd.....lb. .12½- —
l.c.l., dlvd.....lb. .13 - —
tanks, dlvd.....lb. .12¼- —
dynamite, dms.....lb. Nominal
high gravity, dms., c.l., dlvd.lb. .12 - —
l.c.l., dlvd.....lb. .12½- —
tanks, dlvd.....lb. .11⅝- —
saponification, basis 88%, for industrial users, special colors, dms., returnable, c.l., dlvd.lb. .13 Nom.
l.c.l., same basis....lb. .14 Nom.
tanks .....lb. .12 Nom.
for refiners, dms., returnable, tanks, dlvd..lb. .08¾- .09
soapiye, basis 80%, dms., tanks, returnable, dlvd..lb. .07¾- .08¼
Glycine, medicinal, bbls., tins.lb. 1.70 - 2.00
Glycol boriborate, dms.....lb. .22 - —
Phthalate, dms.....lb. .38 - —
Stearate, dms.....lb. .26 - —
Gold, U.S. purchase price.....oz.35.00 - —
Chloride, acid brown, bots..oz.20.75 -21.00
yellow, bots.....oz.18.75 -19.00
Gold-soda chloride, photo., bots., oz.13.00 - —
USP IX, bots.....oz.14.50 -14.75
Gold of pleasure, seed, bgs.....lb. .12 - .12½
Goldenseal, root, bls.....lb. 3.60 - 3.80
powd., bxs.....lb. 3.75 - 3.95
Grains of paradise, bgs.....lb. .45 - .47
Graphite, flake (cryst.), 90%, 325 mesh, 50% graphitic carbon., bgs., c.l., works..lb. .06 - —
bbls., c.l., works.....lb. .06¼- —
l.c.l., works.....lb. .06½- —
amorph., powd., 90%, 325 mesh, 65% graphitic carbon, bgs., c.l., works....lb. .02½- —
65% graphitic, carbon, bbls., c.l., works..lb. .02¾- —
l.c.l., works.....lb. .03¼- —
80% graphitic, carbon, bgs., c.l., works..lb. .03½- —
bbls., c.l., works.....lb. .03¾- —
l.c.l., works.....lb. .04½- —
Grease, house, loose.....lb. .05 - .05½
White .....lb. .05½- .05⅝
Yellow .....lb. .05½- .05¼
Wool (see Adeps lanae and Degras).
Green, chrome, CP, dark, light, medium, blue content up to 5%, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. river, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis..lb. .21 - —
6-10%, bbls., same basis.lb. .22 - —
11-15%, bbls., same basis.lb. .23 - —
16-20%, bbls., same basis.lb. .23½- —
21-25%, bbls., same basis.lb. .24 - —
26-30%, bbls., same basis.lb. .24½- —
31-35%, bbls., same basis.lb. .25½- —
36-40%, bbls., same basis.lb. .27 - —
41-45%, bbls., same basis.lb. .28½- —
46-50%, bbls., same basis.lb. .30 - —
Green, chrome, prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, ½c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.
reduced, CP, color content up to 5%, same basis..lb. .06 - —
9-10%, bbls., same basis.lb. .06¾- —
11-13%, bbls., same basis.lb. .07¼- —
14-16%, bbls., same basis.lb. .07½- —
17-19%, bbls., same basis.lb. .07¾- —
20-21%, bbls., same basis.lb. .08 - —
22-23%, bbls., same basis.lb. .08¼- —
24-25%, bbls., same basis.lb. .08½- —
26-27%, bbls., same basis.lb. .08¾- —
28-29%, bbls., same basis.lb. .09¼- —
30-31%, bbls., same basis.lb. .10 - —
32-33%, bbls., same sasis.lb. .11¼- —
34-35%, bbls., same basis.lb. .12¾- —
36-40%, bbls., same basis.lb. .14¼- —
41-45%, bbls., same basis.lb. .16¾- —
46-50%, bbls., same basis.lb. .16¾- —
51-55%, bbls., same basis.lb. .17¼- —
56-60%, bbls., same basis.lb. .17¾- —
61-65%, bbls., same basis.lb. .18¼- —
66-70%, bbls., same basis.lb. .19¼- —
71-75%, bbls., same basis.lb. .20¼- —
Oxide, dom., pure, bbls.....lb. .25 - —
ceramic, light shades, bbls., c.l., works..lb. .25 - —
l.c.l., works.....lb. .30 - —
standard grade, bbls., works..lb. .21 - .22
Tetrahydroxide, bbls.....lb. .38 - —
Paris (see P).
Tungstated, brilliant, kgs....lb. 3.50 - —
emerald, kgs.....lb. 2.35 - —
Verdigris (see V).
Green dyes are listed under Dyes.
Grindelia robusta, bls.....lb. .09 - .10
Guaiac resin, cs.....lb. .30 - .35
strained, cs.....lb. .80 - .85
Wood. bls.....lb. .04 - .05
Guaiacol, liq., djns.....lb. 1.65 - 1.91
Carbonate, fib., dms., 25 lbs..lb. 2.40 - 2.74
Guarana powd., cs.....lb. 1.10 - 1.13
Gum, aloe (see A).
Ammoniac, tears, cs.....lb. .85 - .90
Arabic, amber, sorts, cleaned, bgs..lb. .13½- .14
white, sorts, 1, bgs.....lb. .33 - .35
2, bgs.....lb. .32 - .34
powd., bbls.....lb. .16½- .17
Asafetida (see A).
Asphaltum (see A).
Benzoin, Siam, cs.....lb. 1.40 - 1.60
Sumatra, cs.....lb. .23 - .24
Camphor (see C).
Chicle, prime, 33% moisture, bgs., ton lots..lb. .34 - .35
Copal, Congo, 1, water white, transparent, bgs., c.l., ex dock or ex whse., N. Y. or San Fran..lb. .49½- —
Gum, copal, dammar, elemi, kauri, mastic, sandarac, and yacca gums prices c.l. (30,000 lbs. min.) apply to assorted lots of gums as well as one grading; l.c.l. prices are ¼c. higher for 10 bgs. or over; ½c. higher for 1-9 bags.
Copal, Congo, cloudy, white, bgs., c.l., same basis..lb. .29½- —
3, selected pale straw bold, bgs., c.l., same basis..lb. .24½- —
4, pale bold straw, bgs., c.l., same basis..lb. .24 - —
5, pale straw bold, bgs., c.l., same basis..lb. .24 - —
6, pale amber bold, bgs., c.l., same basis..lb. .21½- —
7, pale straw bold, bgs., c.l., same basis..lb. 17 - —
8, light amber bold, bgs., c.l., same basis..lb. .17 - —
9, medium light amber bold, bgs., c.l., same basis..lb. .13⅞- —
10, rescraped hard amber bold, bgs., c.l., same basis, lb. .13⅜- —
11, hard dark amber bold, bgs., c.l., same basis..lb. .11⅝- —
12, selected bold sorts, bgs., c.l., same basis..lb. .10⅝- —
13, dark sorts bold, bgs., c.l., same basis..lb. .08½- —
14, selected, fully scraped, ivory, bgs., c.l., same basis..lb. .23¼- —
15, ordinary ivory sorts, bgs., c.l., same basis..lb. .10¼- —
16, inferior ivory sorts, bgs., c.l., same basis..lb. .09½- —
17, pale, fingers, bgs., c.l., same basis..lb. .17¾- —
18, pale straw nubs, bgs., c.l., same basis..lb. .17½- —
19, pale straw nubs, bgs., c.l., same basis..lb. .16¾- —
20, hard dark amber nubs, bgs., c.l., same basis..lb. .11⅝- —
21, ordinary selected nubs, c.l., same basis..lb. .10⅜- —

Gum, copal, 22, small mixed nubs, bgs., c.l., same basis..lb. .09½- —
23, dark mixed nubs, bgs., c.l., same basis..lb. .10½- —
24, No. 1, ivory nubs, bgs., c.l., same basis..lb. .17¾- —
25, No. 2, natural ivory nubs, bgs., c.l., same basis..lb. .09½- —
26, pale bld chips, bgs., c.l., same basis..lb. .10 - —
27, pale small nubs, bgs., c.l., same basis..lb. .09½- —
28, pale dust, bgs., c.l., same basis..lb. .08¾- —
Batu, bold, scraped, bgs., c.l., same basis..lb. .08¾- —
unscraped, bgs., c.l., same basis..lb. .07 - —
chips, bgs., c.l., same basis..lb. .07 - —
dust, bgs., c.l., same basis, lb. .06¾- —
nubs and chips, bgs., c.l., same basis..lb. .07 - —
black, bold, scraped, bgs., c.l., same basis..lb. .12¼- —
unscraped, bgs., c.l., same basis..lb. .08¼- —
nubs and chips, bgs., c.l., same basis..lb. .07¾- —
Hiroe, Macassar, pale bold, bgs., c.l., same basis..lb. .15¾- —
chips, bgs., c.l., same basis, lb. .09 - —
dust, bgs., c.l., same basis..lb. .06¾- —
nubs, bgs., c.l., same basis..lb. .14¾- —
Singapore, Rasak, bold, bgs., c.l., same basis..lb. .17½- —
chips, bgs.,c.l., same basis, lb. .09½- —
dust, bgs., c.l., same basis, lb. .06¾- —
nubs, bgs., c.l., same basis, lb. .13½- —
Manila, Boeas, amber and dark, bskts., c.l., same basis..lb. .14½- —
light, bskts., c.l., same basis..lb. .16¾- —
Loba A, bskts., c.l., same basis..lb. .17¾- —
B, bskts., c.l., same basis.lb. .16¾- —
C, bskts., c.l., same basis, lb. .16¼- —
CNE, bskts., c.l., same basis..lb. .12¾- —
D, bskts., c.l., same basis, lb. .15¼- —
DK, bskts..c.l., same basis, lb. .11⅞- —
DK, dst., bskts., c.l., same basis..lb. .08¾- —
Sambas and white split chips, bskts., c.l., same basis..lb. .17½- —
Singapore, dust., bskts., c.l., same basis..lb. .08¾- —
spirit - soluble, CBB, bskts., basis..lb. .14⅞- —
DBB, bskts., c.l., same basis..lb. .14½- —
MA, bskts., c.l., same basis, lb. .13¾- —
MB, bskts., c.l., same basis, lb. .13¼- —
WS, bskts., c.l., same basis, lb. .14½- —
Philippine, Manila, amber sorts, bskts., c.l., same basis..lb. .14¼- —
chips, pale, bskts., c.l., same basis..lb. .14½- —
pale, small, bskts., c.l., same basis..lb. .13¼- —
extra pale sorts, bskts., c.l., same basis..lb. .14¾- —
nubs, bskts., c.l., same basis..lb. .15¼- —
pale, scraped, bskts., c.l., same basis..lb. .15⅞- —
seeds and dust., bskts., c.l., same basis..lb. .09⅝- —
Pontianak, bold, genuine, bgs., same basis..lb. .18½- —
mixed, bgs., c.l., same basis, lb. .16⅝- —
split, bgs., c.l., same basis, lb. .16¼- —
chips, bgs., c.l., same basis, lb. .10½- —
nubs, bgs., c.l., same basis, lb. .13½- —
Dammar, Batavia, A, cs., c.l., same basis as copal..lb. .22¾- —
A/D, cs., c.l., same basis..lb. .14½- —
A/E, cs., c.l., same basis..lb. .13¾- —
B, cs., c.l., same basis.....lb. .21¼- —
C, cs., c.l., same basis.....lb. .15¼- —
D, cs., c.l., same basis.....lb. .13¾- —
dust, cs., c.l., same basis..lb. .08¾- —
E, cs., c.l., same basis.....lb. .10¾- —
F, cs., c.l., same basis.....lb. .08¾- —
Singapore 1, cs., c.l., same basis..lb. .19⅝- —
2, cs., c.l., same basis....lb. .15¾- —
3, cs., c.l., same basis....lb. .09 - —
chips, cs., c.l., same basis.lb. .12½- —
dust., cs., c.l., same basis, lb. .09 - —
seeds, cs., c.l., same basis, lb. .10½- —
Elemi, cns., c.l., same basis as copal..lb. .11¾- —
Ester, dms., dlvd., New England, N. J., eastern N. Y. and Pa., Del., and Md., 75,000 lbs., contrs. or single shipt., 10,000 lbs.. lb. .06¼- .06¾
less than 10,000 lbs., same basis..lb. .06½- .07
Western N. Y., and Pa., Ohio, Mich., Ind., Ill., Wis., Minn., Iowa, Mo., Ky., Va., W. Va., and N. C., 75,000 lbs., contrs. or straight c.l.. lb. .06¾- .07
l.c.l., same basis.....lb. .07 - .07½
dlvd., elsewhere, 75,000 lbs., contrs. or straight, c.l..lb. .07 - .07½
l.c.l., same basis.....lb. .07¼- .07¾
Euphorbium, cs. .....lb. .50 - .55
Galbanum, cs. .....lb. 1.50 - 1.60
Gamboge, pipe, cs.....lb. .70 - .75
powd., bbls. .....lb. .75 - .80
Ghatti, soluble, bgs.....lb. .11 - .15
superior, bgs.....lb. .09 - .11
Guaiac (see Guaiac resin).
Karaya, bbls., bxs., dms....lb. .14 - .33
Kauri, brown, XXX, cs., c.l., lb. .60 - —
BX, cs., c.l., same basis..lb. .38 - —
B1, cs., c.l., same basis..lb. .28 - —
B2, cs., c.l., same basis..lb. .24 - —
B3, cs., c.l., same basis..lb. .18½- —
80% chips, cs., c.l., same basis..lb. .12½- —
pale, XXX, cs., same basis.lb. .61 - —
1, cs., c.l., same basis...lb. .41 - —
2, cs., c.l., same basis...lb. .24 - —
3, cs., c.l., same basis...lb. .17¾- —
Kino, tins.....lb. 4.00 - 4.50
Locust bean, powd., bbls....lb. Nominal

Gum, mastic, cs., c.l., same basis as copal..lb. .85 - .90
Myrrh, USP, cs.....lb. .60 - .65
Olibanum, siftings, cs.....lb. .08 - .12
Tears, cs.....lb. .15 - .25
Opium (see O).
Rosin (see R).
Sandarac, cks., c.l., same basis as copal..lb. .37 Nom.
Scammony, cs.....lb. 1.10 - 1.15
Talha, bgs.....lb. .14 Nom.
Thus, bbls.....280 lbs. 15.00 - 15.25
Tragacanth, Alleppo, 1, cs...lb. 2.65 - 2.70
2, cs.....lb. 2.55 - 2.60
3, cs.....lb. 2.45 - 2.50
flake, bgs.....lb. No prices
Yacca, bgs.....lb. .03½- .04
Gypsum, Keene's cement, paper bgs., c.l., f.o.b. Acme, Tex., frt. equald..ton. 22.45 - —
Medicine Lodge, Kans., frt. equaled..ton. 17.00 - —
New Brighton, N. Y., frt. equald..ton. 27.65 - —
Southard, Okla., frt. equal. ton. 17.00 - —
Sweetwater, Tex., frt. equald..ton. 21.45 - —
Acme, Tex., frt. equald. ton. 12.50 - —
Blue Rapids, Kans., frt. equald..ton. 12.50 - —
Medicine Lodge, Kans., frt. equald..ton. 12.50 - —
New Brighton, N. Y., frt. equald..ton. 14.00 - —
f.o.b. Southard, Okla., frt. equald..ton. 12.50 - —
Sweetwater, Texas, frt. equald..ton. 12.50 - —
stucco, paper bags, c.l., f.o.b. Acme Tex.; Blue Rapids, Kans.; Fort Dodge, Ia.; Grand Rapids, Mich.; Gypsum, O.; New Brighton, N. Y.; Plasterco, Va.; Southard, Okla.; Sweetwater, Tex., frt. equald.....ton. 8.00 - —
terra alba, dom., paper bgs., c.l., f.o.b. New Brighton, N. Y.; Southard, Okla., frt. equald..ton. 12.00 - —
import, bgs., ex dock.....ton. 28.00 Nom.

H

Hawthorn berries, bgs.....lb. .30 - .32
Heliotropin, cryst., cns.....lb. 3.00 - 3.20
Hellebore root, white, powd., bbls. lb. .14 - .15
Helonias root, bls.....lb. .55 - .60
Hematine crystals, bbls.....lb. .20 - .30
Hemlock bark extract, 25%, tan, c.l., bbls., works..lb. .03⅜- —
l.c.l., bbls., works.....lb. .03⅝- —
tanks, works.....lb. .03 - —
Hempseed, Manchur, bgs.....lb. .06½- .07½
Henbane, leaves, bls.....lb. .55 - .60
Henna leaves, bls.....lb. .16 - .18
powd., bbls., bxs.....lb. .18 - .20
Heptane, mixed, 77-115°C., dms., c.l., Group 3..gal. .11 - —
l.c.l., Group 3.....gal. .16 - —
tanks, Group 3.....gal. .08½- —
Normal, 86-100°, dms., c.l., Group 3..gal. .11½- —
l.c.l., Group 3.....gal. .17 - —
tanks, Group 3.....gal. .09½- —
Hexalin, dms.....lb. .80 - —
Hexane, normal, 60-70°C., dms., c.l., Group 3..gal. .12½- —
l.c.l., Group 3.....gal. .17 - —
tanks, Group 3.....gal. .10½- —
laboratory grade, dms., c.l., Group 3..gal. .14 - —
l.c.l., Group 3.....gal. .25 - —
Hexamethylenetetramine, tech., dms., 1,500 lbs. or more, shipments, f.o.b. Perth Amboy or N. Y. C..lb. .32 - —
150 to 1,350 lbs., shipments, same basis..lb. .33 - —
USP, dms, 500 lbs. or more, shipments, same basis..lb. .38 - —
fib. ctns., same basis.....lb. .40 - —
Homatropine hydrobromide, bots., 25 ozs..oz. 15.00 Nom.
Hoofmeal, 17-18% ammon., bulk, f.o.b. Chicago..unit-ton. 3.00 - 3.15
Hops, N. F., bls.....lb. .23 - .24
Horehound, bls.....lb. .12 - .13
Hydrangea root, bls.....lb. .08 - .09
Hydrastine, bots., 4 ozs.....oz. 17.25 - —
cns., 16 ozs.....oz. 17.00 - —
Hydrochloride, bots., 4 ozs..oz. 17.25 - —
cns., 16 ozs.....oz. 17.00 - —
Sulphate, bots., 4 ozs.....oz. 19.00 - —
cns., 16 ozs.....oz. 18.75 - —
Hydrastinine, 15 gr., bots.....bot. 3.00 - —
Hydrastis (see Golden seal).
Hydrofuramide, dms., 100 lbs. or more, works..lb. .30 - —
fib. ctns., works.....lb. .40 - —
Hydrogen peroxide, USP, bbls..lb. .03¾- .04
100 vols., cbys., E. of Miss. River..lb. .20 - —
Hydroquinone, dealers, bbls., dms..lb. .90 - .94
Hydroxycitronellal, cns.....lb. 2.00 - 2.50
Hyoscine hydrobromide, bots..oz. 55.00 Nom.
Hydrochloride, 5 gr., bots..bot. .75 - —
Hyoscyamine, 5 gr., bots.....bot. .60 - —
Hydrobromide, 5 gr., bots..bot. .60 - —
Sulphate, 5 gr., bots.....bot. .60 - —
Hypernic, ext. liquid, 51°, bbls., lb. .14 - —

I

Iceland moss, bls.....lb. .18 - .20
Ichthyol, bots.....lb. 4.00 - —
Indian red (see Red, Indian).
Indigo, nat., Madras, cs.....lb. 1.63 - 1.67
synth., liq., bbls.....lb. .16½- .19
powd., bbls.....lb. .74½- .85
Indol, CP, bots.....lb. 32.00 - 34.00
Insect flowers (see Pyrethrum).
Iodine, crude, jars, 25 lbs.....lb. 1.30 - —
kgs., 150 lbs., less 5%.....lb. 1.21 - —
resubl., bots., 5 lbs.....lb. 2.10 - —
jars, 50 lbs.....lb. 2.00 - —
tincture, USP, bbls., 47 gals. gal. 2.00 - —
cbys., 5 gals.....gal. 2.05 - 2.10
mild, bbls., 47 gals.....gal. 1.25 - —
cbys., 5 gals.....gal. 1.30 - 1.35
Iodoform, dms., 100 lbs.....lb. 3.95 - 4.10
jars .....lb. 4.20 - —
Ionone, alpha, bots.....lb. 2.50 - 2.55
alpha, extra, bots.....lb. 4.00 - 4.05
alpha beta, bots.....lb. 2.25 - 2.30
beta, bots.....lb. 4.10 - 4.15
Ipecac root, bgs.....lb. 1.15 - 1.20
powd., bxs.....lb. 1.25 - 1.30
Irish moss, ordinary, bls.....lb. .15 - .16
powd., 80-90 mesh, bbls..lb. .30 - .32
prime, bleached, bls.....lb. .28 - .30
Iron acetate, N. F., IV, 100-lb. cbys..lb. .15 - —
djns., 50 lbs.....lb. .16 - —
liquor, bbls., c.l., dlvd.....lb. .03 - —
l.c.l., dlvd.....lb. .04 - —
Iron chloride (ferric), tech., anhydr., 390-lb. dms..100 lbs. 4.65 - 6.25
150-lb. dms.....100 lbs. 5.00 - 6.00
cryst., bbls., works, frt. alld. or equald..lb. .05 - .06
kegs, works, frt. alld. or equald..lb. .07½- .08
liquor, cbys., works, frt. alld. or equald..lb. .05 - .06
USP X, cryst., bbls.....lb. .07½- —
kegs .....lb. .08½- —
USP solut., cbys., works, frt. alld. or equald..lb. .06½- .07
djns. .....lb. .07½- —
USP VIII, pearls.....lb. .72 - .75
powd., cns.....lb. .84 - .87
scales, cns.....lb. .77 - .80
Glycerophosphate, bbls., kgs., 1,000-lb. lots..lb. 3.15 - —
smaller lots.....lb. 3.25 - —
cns., 25 lbs.....lb. 3.37 - —
Hypophosphite, cns.....lb. 1.55 - 1.60
Iodide, bots.....lb. 3.18 - 3.32
syrup, djns.....lb. .39 - —
bots. .....lb. .53 - —
Nitrate, coml., kgs.....lb. .02¾- .03
Oxalate, powd., kgs.....lb. .47 - —
cns. .....lb. .52 - —
scales, cns.....lb. .83 - .85
Oxide (see Black, Red, etc.).
Phosphate, ferric, pearls, cns., 50 lbs..lb. .54 - —
25 lbs.....lb. .57 - —
scale, cns., 50 lbs.....lb. .59 - —
25 lbs.....lb. .62 - —
ferrous, 200-lb. bbls.....lb. .35 - —
25-lb. bxs.....lb. .40 - —
100-lb. kgs.....lb. .37 - —
Pyrophosphate, pearls, cns...lb. .59 - .62
scales, cns.....lb. .64 - .67
Reduced, 90%, cs.....lb. .60 - .65
Sulphate, tech. (see Copperas and ferric sulphate).
Sulphate, USP, cryst., 275-lb. bbls..lb. .04¼- —
dms., 100 lbs.....lb. .06½- —
Iron-ammonia citrate, brown, gran., cns..lb. .35 - .38
pearls, cns.....lb. .35 - .38
scales, cns.....lb. .47 - .50
green, gran., cns.....lb. .35 - .38
pearls, cns.....lb. .35 - .38
scales, cns.....lb. .47 - .50
Iron-ammonia oxalate, bxs....lb. .30 - —
fib. dms.....lb. .23½- —
kgs. .....lb. .25½- —
Iron-potash oxalate, bbls.....lb. .42 - —
kgs. .....lb. .44 - —
jars .....lb. .48 - —
Iron-soda oxalate, bxs.....lb. .30 - —
fib. dms.....lb. .23½- —
kgs. .....lb. .25½- —
Isobutylacetate, 55-gal. dms., works..lb. .069 - —
tanks, works.....lb. .059 - —
Isopentane, dms., works.....lb. .48 - —
small lots, works.....lb. .50 - —
Isophorone, dms., works.....lb. .25 - —
Isopropanol (see Alcohol, isopropyl).
Isopropyl acetate, dms., 5 gals., E. of Rockies, frt. alld..lb. .10 - —
55 gals., c.l., E. of Rockies, frt. alld..lb. .065 - —
55 gals., l.c.l., E. of Rockies, frt. alld..lb. .07 - —
tanks, E. of Rockies, frt. alld..lb. .055 - —
Alcohol (see Alcohol).
Ether, dms., 5 gal., frt. alld., gal. .55 - —
55 gal., c.l., E. of Miss., frt. alld..gal. .35 - —
55 gal., c.l., W. of Miss., frt. alld..gal. .39 - —
Isopropyl ether, dms., 55 gals., l.c.l., E. of Miss., frt. alld., gal. .44 - —
tanks, E. of Miss., frt. alld., gal. .25 - —
W. of Miss., frt alld., gal. .29 - —

J

Jaborandi leaves, bls.....lb. .11 - .13
Jalap root, NF, bls.....lb. .24 - .26
powd., bbls, bxs.....lb. .28 - .30
resin, lump, cns.....lb. 3.70 - —
powd., bxs.....lb. 3.75 - —
Juniper berries, bgs.....lb. .10 - .13

K

Kamala, tins.....lb. .42 - .43
Kaolin (see China clay).
Kava kava root, bls.....lb. .14 - .16
Kerosene, at refinery:—
Bayonne, 41-43 w.w., tanks, gal. .0560- —
Gulf ports, p.w., bulk.....gal. .07⅜- —
w.w., bulk..gal. .03⅞- —
Louisiana - Arkansas, 41-43 w.w., bulk..gal. .04 - .04⅝
Oklahoma-Texas, 41-43 w.w., tanks..gal. .04 - .04½
42-44 w.w., tanks.....gal. .04¼- .04⅞
Pennsylvania, 45 w.w., tanks, gal. .04⅝- .04⅞
46 w.w., tanks.....gal. .04⅜- .05
47 w.w., tanks.....gal. .04⅞- .05½
Kerosene, tankwagon:—
Atlanta .....gal. .12 - —
Boston .....gal. .08¼- —
Chicago .....gal. .10 - —
Cincinnati .....gal. .13 - —
Denver .....gal. .11½- —
Louisville .....gal. .10 - —
Minneapolis .....gal. .104 - —
New Orleans.....gal. .11 - —
New York.....gal. .09 - —
San Francisco.....gal. .11½- —
Kerosene distillate (see Oil, furnace).
Kieserite, calc., 96-98% $MgSO_4$ bgs., c.l., ex vessel Atlantic, Gulf ports, duty pd..ton. No Prices
Kola nuts, bgs.....lb. .12 - .13

L

Lady slipper root, bls.....lb. .36 - .37
Lanolin (see Adeps lanae).
Lard, city, tubs.....100 lbs. 6.25 - 6.50
Middlewestern, trcs....100 lbs. 6.45 - 6.55
Neutral, trcs.....100 lbs. 7.00 - 7.25
Western, choice, trcs..100 lbs. 6.50 - 6.60
Compound, trcs.....100 lbs. 9.50 - 9.75
Larkspur seed, bgs.....lb. 1.10 - 1.15
Laurel berries, bls.....lb. .25 - .26
Leaves, Greek, bls.....lb. .05½- .06
Lavender flowers, ordinary, bls.lb. .40 - .45
medium, bls.....lb. .45 - .50
select, bls.....lb. .55 - .60
Lead acetate, white, broken, bbls. lb. .11 - —
cryst., bbls.....lb. .11 - —
gran., bbls.....lb. .11¾- —
powd., bbls.....lb. .11¾- —

Gum, Copal—Lime

Lead, arsenate, bgs., c.l., dealers..lb. .10 - .11
l.c.l., bgs., dealers.....lb. .10½- .11½
Lead arsenate prices are works or whse. basis, frt. alld. to dest. in lots of 96 lbs. or over; no frt. or truck allowance for works or whse. pick ups.
Blue, basic sulphate, bbls., c.l., dlvd. E..lb. .06¼- —
dlvd., Ariz., Cal., Col., Idaho, Mont., Nev., N. M., Ore., Utah, Wash., Wyo. .....lb. .06¼- —
l.c.l., dlvd. E.....lb. .06½- —
l.c.l., dlvd. Ariz., Cal., Col., Idaho, Mont., Nev., N. M., Ore., Utah, Wash., Wyo.....lb. .07 - —
Carbonate (see Lead, white).
Chloride, pure, bots., 5 lbs...lb. .62 - —
fib. dms., 25 lbs.....lb. .40 - —
Iodide, NF V, powd., 5 lb. bots..lb. 2.66 - —
jars .....lb. 2.55 - —
Linoleate, pale, precip., dms.lb. .19 - —
Metal (see daily quotations in market report).
Metallic, paste, 200-lb. cont., f.o.b. works..lb. .19 - —
5-lb. cont., f.o.b. works....lb. .22 - —
Nitrate, bbls.....lb. .11 - .14
Oleate, bbls.....lb. .18½- .20
Peroxide, cns., works.....lb. .46 - .47
Red, dry, 95% or less Pb_3O_4, bbls., c.l. (20 tons), dlvd., Ala., Ariz., Ark., Colo., Fla., Ga., Idaho, La., Miss., Mont., Nev., N. Mex., Okla., Tex., Utah, Wyo., and E. of Cascade Mts. in Ore. and Wash...lb. .08 - —
other points.....lb. .07¾- —
l.c.l., 5 tons, dlvd., Ala., Ark., Cal., Fla., Ga., La., Miss., Okla., Tex., and W. of Cascade Mts. in Ore. and Wash. .....lb. .08½- —
Ariz., Idaho, Nev., Utah and E. of Cascade Mts. in Ore. and Wash. .....lb. .09 - —
Colo., Mont., N. Mex., Wyo..lb. .08¾- —
other points.....lb. .08¼- —
smaller lots, Ala., etc..lb. .09 - —
Ariz., etc.....lb. .09½- —
Colo., etc.....lb. .09¼- —
other points.....lb. .08¾- —
97%, Pb_3O_4, bbls., c.l., (20 tons), dlvd., Ala., etc., lb. .08¼- —
other points.....lb. .08 - —
l.c.l., 5 tons, dlvd., Ala., etc..lb. .08¾- —
Ariz., etc.....lb. .09¼- —
Colo., etc.....lb. .09 - —
other points.....lb. .08½- —
smaller lots, dlvd., Ala., etc..lb. .09¼- —
Ariz., etc.....lb. .09¾- —
Colo., etc.....lb. .09½- —
other points.....lb. .09 - —
98%, Pb_3O_4, bbls., c.l. (20 tons), dlvd., Ala., etc., lb. .08½- —
other points.....lb. .08¼- —
l.c.l., 5 tons, dlvd., Ala., etc..lb. .09 - —
Ariz., etc.....lb. .09½- —
Colo., etc.....lb. .09¼- —
other points.....lb. .08¾- —
smaller lots, dlvd., Ala., etc..lb. .09¾- —
Ariz., etc.....lb. .10¼- —
Colo., etc.....lb. .10 - —
other points.....lb. .09½- —
In oil, 95% min., 100-lb. kgs., lb. .12½- —
Resinate, fused 15%, bbls....lb. .09½- —
pale, bbls.....lb. .11½- —
precip., bbls.....lb. .16½- —
Stearate, bbls.....lb. .26 - —
Sulphate (see Lead, white basic sulphate).
Titanate, bbls., c.l. (20 tons), works, frt. alld..lb. .10 - —
l.c.l., 5 tons, one delvy., E. frt. alld..lb. .10¼- —
Pac. Cst., ex whse....lb. .10¼- —
smaller lots, E. frt. alld., lb. .10½- —
Pac. Cst., ex whse....lb. .10½- —
White, dry, basic carbonate, bbls., c.l., dlvd. Ariz., Calif., Colo., Idaho, Mont., Nev., N. Mex., Ore., Utah, Wash. and Wyo..lb. .07¼- —
other points.....lb. .07 - —
l.c.l., dlvd., Ariz., etc.lb. .07¼- —
other points.....lb. .07¼- —
basic sulphate, bbls., c.l., dlvd., Ariz., etc..lb. .06½- —
other points.....lb. .06¼- —
l.c.l., dlvd., Ariz., etc. lb. .06¾- —
other points.....lb. .06¼- —
In oil, 100-lb. kgs., consumers, lb. .12¾- —
dealers .....lb. .10¾- —
painters .....lb. .11¾- —
Consumers' price and painters' price are ½c. lower on orders of 500 lbs. or more.
Lecithin, 100%, cns., f.o.b., N. Y. or Chi..lb. 2.50 - —
edible, grade 1, dms., c.l., same basis..lb. .45 - —
l.c.l., same basis.....lb. .47½- .65
grades 2 or 3, dms., c.l., same basis..lb. .47½- —
l.c.l., same basis.....lb. .50 - .67½
grade 4, dms., c.l., same basis..lb. .50 - —
l.c.l., same basis.....lb. .52½- .70
purified, cs., dms., c.l., same basis..lb. .65 - —
l.c.l., same basis.....lb. .67½- .85
tech., grade 1, dms., c.l., same basis..lb. .35 - —
l.c.l., same basis.....lb. .37½- .55
grades 2 or 3, dms., c.l., same basis..lb. .37½- —
l.c.l., same basis.....lb. .40 - .57½
grade 4, dms., c.l., same basis..lb. .40 - —
l.c.l., same basis.....lb. .42½- .60
Lecithin prices quoted above are for goods packed in 25, 50 or 100-lb. dms. When goods are packed in 500-lb. dms., prices are 1c. per lb. less.
Lemon peel, bls.....lb. .13 - .15
Licorice extract, mass., cs.....lb. .18 - .19
powd., bbls.....lb. .24 - .25
root, cuttings, bls.....lb. .07 - .08
powd., bbls., bxs.....lb. .11 - .12
select, bndls., cs.....lb. .27 - .30
Lime, chemical (quicklime), lump or pebble, bulk, f.o.b. Bellefonte, Pa.....ton. 7.00 - —
Berkley, W. Va.....ton. 7.00 - —
Carey, Ohio.....ton. 7.00 - —

Lime—Mustard Seed

Lime, chemical (quicklime), lump or pebble, bulk, f.o.b. Cedar Hollow, Pa..ton. 8.50 - —
Crab Orchard, Tenn.ton. 6.25 - —
Eagle Mountain, Va.ton. 7.00 - —
Farnams, Mass.....ton. 8.00 - —
Gibsonburg, Ohio....ton. 7.00 - —
Hannibal, Mo.....ton. 6.50 - —
Keystone, Ala.....ton. 7.00 - —
Knoxville, Tenn.....ton. 6.25 - —
Limedale, Ark.....ton. 7.00 - —
Longview, Ala.....ton. 6.25 - —
Manistique, Mich....ton. 8.00 - —
Marblehead, Ohio....ton. 7.50 - —
Martinsburg, W. Va.ton. 7.00 - —
Menominee, Mich....ton. 8.00 - —
Mitchell, Ind.....ton. 6.50 - —
Newala, Ala.....ton. 6.25 - —
Rincon, Cal.....ton.13.00 - —
Ripplemead, Va.....ton. 7.00 - —
Riverton, Va.....ton. 7.00 - —
San Francisco, Cal..ton.13.00 - —
Scioto, Ohio.....ton. 6.50 - —
Springfield, Mo.....ton. 7.00 - —
Woodville, Ohio.....ton. 7.00 - —
York, Pa.....ton. 7.00 - —
hydrated, paper bags, f.o.b. Bellefonte, Pa..ton. 8.50 - —
Berkley, W. Va.....ton. 8.50 - —
Buffalo, N. Y.....ton.10.00 - —
Carey, Ohio.....ton. 8.50 - —
Cedar Hollow, Pa....ton. 8.50 - —
Crab Orchard, Tenn.ton. 9.00 - —
Eagle Mountain, Va.ton. 9.00 - —
Farnams, Mass.....ton. 8.50 - —
Gibsonburg, Ohio....ton. 8.50 - —
Hannibal, Mo.....ton. 8.50 - —
Keystone, Ala.....ton. 9.00 - —
Knoxville, Tenn.....ton. 9.00 - —
Le Roy, Minn.....ton.10.00 - —
Lime Crest, N. J....ton. 8.50 - —
Limedale, Ark.....ton. 9.00 - —
Longview, Ala.....ton. 9.00 - —
Louisville, Ky.....ton.14.50 - —
Manistique, Mich....ton. 9.00 - —
Marblehead, Ohio....ton. 9.50 - —
Martinsburg, W. Va.ton. 8.50 - —
Mitchell, Ind.....ton. 9.00 - —
Newala, Ala.....ton. 9.00 - —
Potsakey, Mich.....ton. 9.00 - —
Port Island, Mich....ton. 9.00 - —
Rapid City, S. D....ton.12.00 - —
Ripplemead, Va.....ton. 9.00 - —
San Francisco, Cal..ton.16.00 - —
Springfield, Mo.....ton. 9.00 - —
Woodville, Ohio.....ton. 8.50 - —
York, Pa.....ton. 8.50 - —
spray, paper bags, f.o.b. Bellefonte, Pa..ton. 9.00 - —
Carey, Ohio.....ton.11.00 - —
Farnams, Mass.....ton. 9.50 - —
Gibsonburg, Ohio....ton.11.00 - —
Lime Crest, N. J....ton. 8.50 - —
Marblehead, Ohio....ton.11.00 - —
Scioto, Ohio.....ton.10.00 - —
Woodville, Ohio.....ton.11.00 - —
York, Pa.....ton. 9.00 - —

Lime salts (see Calcium).

Lime-sulphur, dry, dealers, bgs., c.l., E. of and incl. N. Dak., S. Dak., Neb., Kan., Okla., Tex..lb. .07½- .08½
dms., same basis.....lb. .10½- —
400 lbs., or more, bgs., same basis..lb. .07¾- .08¾
dms., same basis.....lb. .11 - —
less than 400 lbs., same basis, lb. .08½- .09½
dms., same basis.....lb. .12 - —
solution, Zone 1, dms., consumers..gal. .16 - —
Zone 2, tanks, dealers, wks., gal. .08½- —
30-50 dms.....gal. .11 - .15
Zone 3, tanks, dealers, dlvd., gal. .11½- —
30-50 dms.....gal. .14 - .18
Zone 4, tanks, dealers, wks., gal. .08 - —
dms., wks., except Cal..gal. .12 - —
Zone 5, tanks, dealers, dlvd, gal. .10½- —
dms. .....gal. .12 - —
Zone 6, tanks, dealers....gal. .08½- —
30-50 dms.....gal. .11 - .15

Prices for lime sulphur solution are f.o.b. warehouse points, freight allowed. Zone 1 includes Ga., S. C., Ala., N. C., except the counties of Ashe, Surry, Stokes, Rockingham and Alleghany; Tenn., east of Tenn. River. Zone 2: New England States, Zone 3, Ark., Ohio, Ind., Ill., Ia., Ky., Mich., Wis., Minn., Mo., and Tenn. west of Tenn. River; Penn, eastern tier, and W. Va. western tier. Zone 4: West of Rocky Mountains, except southern California, which makes up Zone 5. Zone 6: N.Y. east of Herkimer, N. J., Md., Del., Va., Pa.—all counties lying east of the western boundary of Bedford, Blair, Center, Clinton and Potter, W. Va.—counties of Mineral, Hampshire, Morgan, Berkeley, Jefferson, and Hardy, N. C.—counties of Ashe, Alleghany, Surry, Stokes and Rockingham.

Linalool, cns.....lb. 2.10 - 3.30
Linalyl acetate, cns.....lb. 2.00 - 3.00
Linden flowers, with leaves, bls.lb. .32 - .35
without leaves, bls.....lb. .30 - .35
Linseed cake, bags, export...ton.28.00 -28.50
meal, 34%, bgs.....ton.37.00 - —
Litharge, com'l, powd., bbls., 20-tons dlvd., Ala., Ariz., Ark., Colo., Fla., Ga., Idaho, La., Miss., Mont., Nev., N. Mex., Okla., Tex., Utah, Wyo., and E. of Cascade Mts. in Ore. and Wash..lb. .07 - —
dlvd., other points....lb. .06¾-- —
5 tons, dlvd., Ala., Ark., Cal., Fla., Ga., La., Miss., Okla., Tex. and W. of Cascade Mts. in Ore., and Wash..lb. .07½- —
Ariz., Idaho, Nev., Utah and E. of Cascade Mts. in Ore. and Wash..lb. .08 - —
Colo., Mont., N. Mex., Wyo..lb. .07¾- —
other points.....lb. .07¼- —
smaller lots, dlvd., Ala., etc. lb. .08 - —
Ariz., etc.....lb. .08½- —
Colo., etc.....lb. .08¼- —
Other points.....lb. .07¾- —
Lithium bromide, bbls., 100 lbs., works, frt. equal'd..lb. 1.90 - —
50 lbs., works.....lb. 1.93 - —
25 lbs., works.....lb. 1.95 - —
Carbonate, 250-lb. bbls.....lb. 1.25 - —
100-lb. kgs.....lb. 1.30 - —
Chloride, 25-lb. jars.....lb. 1.65 - 1.70
Citrate, 250-lb. bbls.....lb. 1.40 - —
25-lb. dms.....lb. 1.45 - —
100-lb. kgs.....lb. 1.40 - —
Fluoride, bbls.....lb. 2.10 - 2.25
Iodide, 5-lb. bots.....lb. 4.85 - —
25-lb. jars.....lb. 4.70 - —
Lithopone, titanated (high-strength), bgs., c.l. (20 tons)..lb. .05 - —
smaller lots.....lb. .05¼- —
bbls., c.l. (20 tons).....lb. .05¼- —
smaller lots.....lb. .05½- —
Lithopone, ordinary, bgs., c.l. (20 tons)..lb. .0360- —
smaller lots.....lb. .0385- —
bbls., c.l. (20 tons).....lb. .0385- —
smaller lots.....lb. .04¼- —
Lithopone in car lots is delivered East or the Pacific Coast and in less than car-lot quantities delivered East or ex warehouse Pacific Coast.
Liverwort leaves, bls.....lb. .40 - .45
Lobelia, herb, bls.....lb. .12 - .13
Seed, bgs.....lb. .35 - .36
Logwood extract, cryst., bbls..lb. .20 - .24
liquid, 51°, bbls.....lb. .10½- .12½
solid, bxs.....lb. .16½- .20½
Lovage root, dom., bls.....lb. .55 - .56
imports, bls.....lb. .45 - .60
Lupulin, N. E., tins.....lb. 1.65 - 1.70
Lycopodium, cs.....lb. 3.75 - 4.00

M

Mace, Banda, cs.....lb. .58 - .60
Batavia, cs.....lb. .32 - .34
Siauw, cs.....lb. .48 - .49
Madder, Dutch, bbls.....lb. .22 - .25
Magnesia, arsenate, dms.....lb. .18 - .20
Calcined, tech., USP, bbls., works..lb. .26 - —
Carbonate, tech., Zone 1, bgs., c.l..lb. .06¼- —
l.c.l. .....lb. .07 - —
2, bbls., c.l.....lb. .07¼- —
l.c.l. .....lb. .08 - —
kgs., c.l.....lb. .08¾- —
l.c.l. .....lb. .09½- —
USP, Zone 1, bbls., c.l.....lb. .08¼- —
l.c.l. .....lb. .09 - —
kgs., c.l.....lb. .09¾- —
l.c.l. .....lb. .10½- —

Magnesia:—Zone 1—Mass., Conn., R. I., N. Y., N. J., Pa., Del. and Md. C.l., shipments, full fr't alld. up to, but not exceeding, 25c. per 100 lbs., actually paid by customers. On l.c.l. shipments, fr't alld., including dlvd. storedoor. Magnesia prices are f.o.b. Plymouth Meeting House. Zone 2—Balance of U. S.; prices f.o.b. Plymouth Meeting, Ambler, Phillipsburg, Valley Forge, and New York.

Chloride, anhy., dom., bbls., dlvd..lb. .13 - —
flake, dom., bbls., wks., c.l., ton.32.00 - —
l.c.l., bbls., wks.....ton.39.00 -42.00
Hypophosphite, cns., 100 lbs., lb. 1.45 - —
25 lbs.....lb. 1.50 - —
Oxide (see Calcined).
Palmitate, bbls.....lb. .33 Nom.
Peroxide, 15%, dms., works..lb. 1.00 - 1.35
Silicate (see Talc).
Silicofluoride, bbls.....lb. .11 - .11½
Stearate, bbls., ctns., c.l.....lb. .24 - —
1 ton.....lb. .25 - —
1,000-2,000 lbs.....lb. .26 - —
smaller lots.....lb. .27 - —
Sulphate (see Epsom salt).
Magnesite, cal., dom., bgs....ton.62.00 -66.00
Import, bgs., duty paid....ton.62.00 -66.00
dead-burned, dom., bulk, c.l., f.o.b. Chewelah, Wash..ton.25.00 - —
Magnesium hydroxide, medicinal, bbls., 200 lbs..lb. .25 - —
dms., 25 lbs.....lb. .30 - —
kgs., 100 lbs.....lb. .26 - —
Trisilicate, cs., 500-lb. lots..lb. .58 - —
100-lb. lots.....lb. .55 - —
cns. .....lb. .75 - .80
Malva flowers, black, bls.....lb. .45 - .50
blue, bls.....lb. .45 - .50
Leaves, bls.....lb. .19 - .20
Manaca root, bls.....lb. .23 - .24
Mandrake root, bls.....lb. .12 - .13
Manganese acetate, dms.....lb. .26½- —
Arsenate, bgs.....lb. .12 - .12½
Borate, tech., bbls.....lb. .15 - .16
Carbonate, bbls.....lb. .19 - —
Chloride, bbls.....lb. .08½ Nom.
Dioxide, African, battery, 84-87%, bbls., 28-40 tons, works, ton.69.00 - —
5-15 tons, works.....ton.72.00 - —
½ 4 tons, works....ton.77.00 - —
Caucasian, 85-90%, bbls., c.l., works..ton.66.50 - —
l.c.l., 5 tons, works...ton.69.50 - —
smaller lots, works..ton.74.50 - —
burlap bgs., c.l., works.ton.64.25 - —
l.c.l., 5 tons, works..ton.67.25 - —
smaller lots, works.ton.72.25 - —
paper bgs., c.l., works.ton.62.50 - —
l.c.l., 5 tons, works..ton.65.50 - —
Glycerophosphate, bbls., kgs., 1,000-lb. lots..lb. 2.80 - —
smaller lots.....lb. 3.00 - —
cns., 25 lbs.....lb. 3.12 - —
Hydrate, bbls., dlvd.....lb. .82 - —
Iodide, bots., 5 lbs.....lb. 5.55 - —
jars, 25 lbs.....lb. 5.70 - —
Linoleate, liquid, 4%, dms...lb. .18 - .19½
solid, precip., 8.2%, bbls...lb. .19 - —
Ore, Cuban, 51-52%, basis Atl. ports..unit-ton. .50 - —
Resinate, fused, 3½%, bbls..lb. .08¼- .08½
precip., dms.....lb. .12 - —
Sulphate, anhyd., ton lots, works..lb. .08 - .08½
single bbls., works.....lb. .08¼- .08¾
fertilizer, 65%, MnSo, bgs., c.l., dlvd., South..ton.52.00 - —
l.c.l., bgs.....ton.59.00 -73.25
Mangrove bark, bgs., shipt...ton.35.00 - —
Manna flake, large, cs.....lb. .58 - .60
small, cs.....lb. .40 - .42
Mannitol, com'l grade, 99% pure, ton lots, works..lb. .42 - —
250 lbs., bbls., works.....lb. .50 - —
reagent grade, 25-lb. tins, 100-lb. lots, works..lb. .95 - —
50-lb. lots, works.....lb. 1.00 - —
Marble flour, bgs.....ton.12.00 -14.00
Marjoram, French, bls.....lb. .28 - .29
Tunisan, bls.....lb. .27 Nom.
Chilean, bls.....lb. .21 - .22
Matico leaves, bls.....lb. .30 - .32
Menthol, USP, natural, cs.....lb. 3.75 - 3.85
synthetic, tech., cs.....lb. 2.50 - —
USP, cs.....lb. 3.25 - —
liquid, dms., 50 lbs.....lb. 1.50 - —
Menthyl salicylate, tins, 100-lb. lots..lb. 3.00 - —
25-lb. lots.....lb. 3.10 - —
Mercurial ointment, 30%, pails, 50 lbs.....lb. 1.24 - —
25 lbs.....lb. 1.26 - —
50%, pails, 50 lbs.....lb. 1.79 - —
25 lbs.....lb. 1.81 - —
Mercury (see Quicksilver)
Ammoniated (see white precipitate).
Bichloride (see Corrosive sublimate).
Bisulphate, bots., 5 lbs.....lb. 2.62 - 2.64
fib., dms., 100 lbs.....lb. 2.49 - —
jars, 25 lbs.....lb. 2.51 - —
Chloride (see Calomel).
Iodide, red, N.F., bots., 5 lbs., lb. 4.56 - —
cns., 25 lbs.....lb. 4.45 - —
fib. dms., 100 lbs.....lb. 4.45 - —
yellow, bots., 5 lbs.....lb. 4.66 - —
fib. dms., 100 lbs.....lb. 4.55 - —
Nitrate ointment (see Citrine ointment).
Mercury, Oxide, red, N.F. (see Red precipitate).
tech. (see Red, mercury oxide).
Mercury, yellow, dom., tech., bbls..lb. 2.26 - —
USP, fib., dms., 50 lbs. or more..lb. 2.78 - —
Mercury and chalk, ctns., 5 lbs., lb. 1.72 - —
fib., dms., 25 lbs.....lb. 1.60 - 1.65
Mesityl oxide, cns., works.....lb. .20½- .22½
dms., c.l., dlvd.....lb. .16 - —
l.c.l., dlvd.....lb. .16½- —
tanks, dlvd.....lb. .15 - —
Metal leaf, pkgs., of 20 books (500 leaves), aluminum, 5½x5½ in..pkg. 1.50 - 1.75
composition, 5½x5½ in..pkg. 1.70 - 1.80
gold, XX deep, 23K, 3⅜x3⅜ in..pkg.15.25 -15.75
3⅜x3⅜ in.....pkg.16.15 -17.50
4x4 in.....pkg.19.50 -20.00
3⅜x5⅞ in.....pkg.22.50 -23.00
3⅞x5⅞ in.....pkg.24.50 -25.00
Silver, 3⅜x3⅜ in.....pkg. 2.75 - 2.85
Metanitroparatoluidin, bbls....lb. 1.30 - —
Metaphenylenediamine, kgs....lb. .65 - —
Metatoluylenediamine, kgs.....lb. .65 - —
Methanol, natural, denat., grade, tanks..gal. .40 - —
97%, tanks.....gal. .32 - —
95%, tanks.....gal. .31 - —
Methanol in drums, car lots, is 5c. per gal. higher, frt. alld., east of the Rocky Mts. Prices on the Pacific Coast are 3c. higher on tanks and 4c. per gal. higher on drums; car lots.

Methanol, synth., pure, dms., c.l., Zone 1, frt. alld..gal. .38 - —
2, frt. alld.....gal. .41 - —
3, frt. alld.....gal. .42 - —
4, frt. alld.....gal. .44 - —
l.c.l., Zone 1, frt. alld. or dlvd..gal. .40½- —
2, frt. alld. or dlvd..gal. .47 - —
3, frt. alld. or dlvd..gal. .44½- —
4, frt. alld. or dlvd..gal. .60 - —
tanks, Zone 1, frt. ald..gal. .33 - —
2, frt. alld.....gal. .35½- —
3, frt. alld.....gal. .36½- —
4, frt. alld.....gal. .37 - —

Synthetic methanol sales zones are:—Zone 1, Conn., Del., D. C., Ill., Ind., Iowa, Ky., Me., Md., Mass., Mich., Minn. Mo. N. H., N. J., N. Y., N. C., Ohio, Penn., R. I., Tenn., Vt Va W. Va., Wis.: Zone 2, Ala., Ark., Col., Fla., Ga., Kans., La., Miss., Neb., N. D., Okla., S. C., S. D., Tex., Wyo.; Zone 3 Los Angeles, Cal.; San Francisco, Cal.; Portland, Ore., and Seattle, Wash.; Zone 4, Ariz., Cal., N. Mex., Mont., Nev., Idaho, Ore., Utah, Wash.

Methyl acetate, 97-99%, dms., c.l. E. of Miss. R..lb. .10½- —
W. of Miss. R.....lb. .11½- —
l.c.l., dms., dlvd. E. of Miss. R..lb. .11 - —
W. of Miss. R.....lb. .12 - —
tanks, dlvd., E. of Miss. R. lb. .09½- —
W. of Miss. R.....lb. .10½- —
tech., dms., c.l., dlvd., E. of Miss. R..lb. .07 - —
W. of Miss. R.....lb. .08 - —
l.c.l., dlvd., E. of Miss. R. lb. .07½- —
W. of Miss. R.....lb. .08½- —
tanks, dlvd. E. of Miss. R. lb. .06 - —
W. of Miss. R.....lb. .07 - —
Acetoacetate, dms., c.l., works, frt. alld..lb. .29½- —
Acetone, natural, dms., c.l..gal. .41 - .47
l.c.l. .....gal. .44 - .63
tanks .....gal. .35 - .39

Methyl acetone prices are frt. alld., east of Rocky Mts. Prices on Pacific Coast are 3c. per gal. higher on tanks and 4c. per gal. higher on drums, car lots.

Synthetic, dms., c.l., Zone 1, frt. alld. E. of Rockies..gal. .38 - —
2, frt. alld. E. of Rockies, gal. .41 - —
3, Pacific Coast.....gal. .42 - —
4 .....gal. .44 - —
l.c.l., Zone 1, frt. alld. E. of Rockies..gal. .41 - —
2, frt. alld. E. of Rockies..gal. .475 - —
3, Pacific Coast.....gal. .45 - —
4 .....gal. .605 - —
tanks, Zone 1, frt. alld., E. of Rockies..gal. .315 - —
2, frt. alld. E. of Rockies, gal. .34 - —
3, Pacific Coast.....gal. .35 - —
4 .....gal. .355 - —

Methyl acetone, synthetic, sales zones are:—Zone 1, Conn., Dela., D. C., Ill., Ind., Iowa, Ky., Me., Md., Mass., Mich., Minn., Mo., N. H., N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., West Va. and Wis.; Zone 2, Ala., Ark., Col., Fla., Ga., Kans., La., Miss., Neb., N. D., Okla., S. C. and S. D.; Zone 3, Pacific Coast; Zone 4, Ariz., Col., Mont., Nev., Idaho, Ore., Utah, Wash., N. Mex.

Alcohol (see Methanol).
Anthranilate, bots.....lb. 2.10 - 2.25
Benzoate, cns., 25 lbs.....lb. .70 - 1.00
Bromide, cyl.....lb. .65 - .75
Chloride, refrigeration, 500 lbs., and up, machine mfrs. and jobbers, cylinders..lb. .32 - —
service men and consumers, cyl..lb. .36 - —
60 to 499 lbs., cyl., mach. mfrs. and jobbers..lb. .36 - —
service men and consumers, cyl..lb. .40 - —
tanks, multi-unit, mach. mfrs. and jobbers..lb. .31 - —
service men and consumers, lb. .35 - —

Methyl chloride quotations are spot or contract, effective July 1, for delivery to any common carrier point in United States. Prices above are in 60, 90 and 180-lb. cylinders. Prices on the 20-lb. cylinders are uniformly 10c. per pound higher than above prices.

Methyl, cinnamate, bls.....lb. 1.75 - 2.00
Formate, dms.....lb. .89 - —
Lactate, dms., l.c.l., dlvd...lb. .80 - —
Iodide, bots.....lb. 3.68 - 3.82
Salicylate, dms.....lb. .35 - .37
cns. .....lb. .37 - .40
Violet toner, bbls.....lb. .88 - —
permanent, bbls.....lb. .80 - —
Methylamyl ketone, dms., works, l.c.l..lb. .25 - —
smaller containers, same basis, lb. .28 - —
Methylcellulose, dms., 100 lbs. or more, frt. alld..lb. .70 - —
less than 100 lbs., works..lb. .75 - —
Methylcyclohexane, 98-100%, dms., works, frt. allds., E. of Rockies..lb. .25 - —
Methylcyclohexanol, 98 - 100%, dms., works, frt. allds., E. of Rockies..lb. .30 - —
Methylcylohexanone, 98 - 100%, dms., works, frt. allds., E. of Rockies..lb. .58 - —
Methylene blue, medcl., kgs., 100 lbs..lb. 2.00 - —
cns., 5 lbs.....lb. 2.35 - —
Chloride, dms., f.o.b. works..lb. .18 - .22
Methylethyl ketone, dms., c.l., frt. pd. E. of Rocky Mts., lb. .06½- —
l.c.l., same terms.....lb. .07 - —
tanks, same terms.....lb. .05½- —
Methylheptenone, bots.....lb. 2.45 - 3.00
Methylheptin carbonate, bots..lb.28.00 -44.00
Methylhexyl ketone, dms., tech., works..lb. .80 - —
Methylisobutyl ketone, dms., 55-gal., c.l., works..gal. .70 - —
l.c.l., works.....gal. .80 - —
smaller containers, works.gal. 1.00 - —
tanks, works.....gal. .70 - —
Methylnaphthyl ketone, dom., cryst., bots..lb. 3.25 - 3.30
imp., bots.....lb. 3.10 - —
Methylpropyl ketone, dms., c.l..lb. .20½- —
l.c.l. .....lb. .21 - —
tanks .....lb. .19½- —
Metronite pigment, 120 mesh, containers extra, c.l., f.o.b. Milwaukee..ton. 9.00 - —
l.c.l., same basis.....ton.11.00 - —
180 mesh, containers extra, c.l., same basis..ton.11.00 - —
l.c.l., same basis.....ton.13.00 - —
250 mesh, containers extra, l.c.l., same basis.....ton.20.00 - —
l.c.l., same basis.....ton.15.00 - —
325 mesh, containers extra, c.l., same basis..ton.18.00 - —
l.c.l., same basis.....ton.20.00 - —
Mica, dry grd., amber, No. 1 quality, bgs. extra and returnable, c.l., works..ton.30.00 - —
l.c.l., 5,000 lbs., works, ton.40.00 - —
1,000 lbs., works....lb. .02 - —
500 lbs., works....lb. .02½- —
100 lbs., works....lb. .03 - —
refined, bgs. extra and returnable, c.l., works..ton.20.00 - —
l.c.l., 5,000 lbs., works, ton.39.00 - —
paint, bgs. extra and returnable, c.l., works..ton.55.00 - —
l.c.l., 5,000 lbs., works, ton.65.00 - —
white, No. 1 quality, bgs. extra and returnable, c.l., works..ton.35.00 - —
l.c.l., 5,000 lbs., works, ton.45.00 - —
1,000 lbs., works..lb. .02½- —
500 lbs., works..lb. .03 - —
roofing, bgs. extra and returnable, c.l., works..ton.29.00 - —
l.c.l., 5,000 lbs., works, ton.39.00 - —
paint, bgs. extra and returnable, c.l., works..ton.60.00 - —
l.c.l., 5,000 lbs., works, ton.70.00 - —
wet-ground, paint or lacquer, bgs., c.l., frt. alld. E—lb. .04½- —
l.c.l., ex-Whse., or frt. alld. E..lb. .05 - —
paper, wall or coated, bgs., c.l., frt. allds. E..lb. .04⅜- —
l.c.l., ex-whse., or frt. allds. E..lb. .04⅞- —
rubber, bgs., c.l., frt. allds. E., lb. .04¼- —
l.c.l., ex-whse., or frt. allds. E..lb. .04⅜- —
wet-ground mica prices are ½c. per pound higher west of Rockies.
Milk powder, skimmed, roller, bbls., c.l..lb. .07 - —
l.c.l. .....lb. .08 - —
spray, bbls., c.l.....lb. .07½- —
l.c.l. .....lb. .08½- —
unskimmed, roller, bbls., c.l., lb. .15½- —
l.c.l. .....lb. .16½- —
spray, bbls., c.l.....lb. .16 - —
l.c.l. .....lb. .17 - —
Millet seed, yellow, bgs.....lb. .03¾- .04¼
early fortune, bgs.....lb. .03 - .03½
hulled, bgs.....lb. .06¼- .06¾
Mineral spirits (see Petroleum thinner and V M & P naphtha).
Molasses, blackstrap, tanks, f.o.b. No. Atlantic ports..gal. .05½- .06
Molybdate orange (see Orange, molybdate).
Molybdenum metal, kgs., 99% powd..lb. 2.60 - 3.00
Trioxide, pure, kgs., basis Mo. content, works..lb. 1.00 - —
technical, kgs., basis Mo. content, works..lb. .80 - —
Monoamylamine, dms., c.l., wks., lb. .52 - —
l.c.l., works.....lb. .53 - .55
tanks .....lb. .50 - —
Monobutylamine, dms., c.l., wks., lb. .50 - —
l.c.l., works.....lb. .51 - .53
tanks, works.....lb. .48 - —
Monochlorobenzene, dms., l.c.l., lb. .06 - .08
Monoethanolamine, dms., c.l., works..lb. .24 - —
l.c.l., dms.....lb. .25 - —
tanks .....lb. .23 - —
Monoethylamine, basis 100% amine content, dms., l.c.l., works, lb. .65 - —
Monoethylanilin, dms.....lb. .77 Nom.
Monomethylamine, dms., c.l., dlvd..lb. .65 - —
l.c.l., dlvd.....lb. .70 - —
Monomethylpara-aminophenol sulphate, dms..lb. 3.75 - 4.00
Monosodiumphosphate (see Soda phosphate monobasic).
Morphine, bots., 5 ozs.....oz.11.10 - —
cns., 25 oz.....oz.10.90 - —
Acetate, bots., 5 ozs.....oz. 9.00 - —
bots., 25 ozs.....oz. 8.80 - —
Ethylhydrochloride, bots., 5 ozs. oz.10.75 - —
cns., 25 ozs.....oz.10.55 - —
Hydrobromide, bots., 5 ozs..oz. 8.95 - —
cns., 25 ozs.....oz. 8.75 - —
Sulphate, bots., 5 ozs.....oz. 9.00 - —
cns., 25 ozs.....oz. 8.80 - —
Morpholine, dms., 55 gal., l.c.l., works..lb. .75 - —
Mullein leaves, cns.....lb. .12 - .14
smaller containers, works....lb. 1.00 - —
flowers, cns.....lb. 1.55 - 1.60
Musk, nat., Tonquin, grained, bots..oz.21.00 -22.00
pods, caddies, 20 ozs.....oz.19.00 -21.00
synth., ambrette, cns., 100 lbs. or more..lb. 3.65 - —
5 lbs. to 75 lbs.....lb. 3.80 - —
1 lb.....lb. 3.95 - —
ketone, cns., 100 lbs. or more. lb. 3.70 - —
5 lbs. to 75 lbs.....lb. 3.95 - —
1 lb.....lb. 4.10 - —
xylol, cns., 100 lbs. or more. lb. 1.05 - —
5 lbs. to 75 lbs.....lb. 1.15 - —
1 lb.....lb. 1.20 - —
Musk root, bls.....lb. .60 - .65
Mustard seed, California, brown. bgs..lb. .09¼- .09¾
Danish, yellow, bgs.....lb. .11¼- .11¾
Dutch, yellow, bgs.....lb. .10¾- .11¼
English, yellow, bgs.....lb. No stocks
Roumanian, yellow, bgs....lb. .09¾- .10¼

PRO

Myrobalans, J1, bgs, f.a.s...ton.32.00 - —
J2, bgs., f.a.s.....ton.25.00 - —
Extract, liquid, 25%, bbls....lb. No prices
solid, 50%, bbls.....lb. No prices
powdered, 70%, bbls.....lb. .06 Nom.

N

Naphtha, Painters, (see Petroleum naphtha V. M. & P.).
Solvent (see S).
Naphthalene, crude, dom., 74 deg., bgs., c.l., works, 100 lbs. 2.25 Nom.
bgs., bbls., l.c.l., works, 100 lbs. 2.50 Nom.
78 deg., bgs., c.l., works, 100 lbs. 2.50 Nom.
l.c.l., works.....100 lbs. 2.75 Nom.
import, bgs., c.i.f.....100 lbs. 2.90 Nom.
refined, balls or flakes, bbls., wholesalers and jobbers, f.o.b. works.....lb. .06¾- —
50-lb. cs., same basis..lb. .07 - —
pkgs. (16 oz.), same basis, lb. .07½- —
(12 oz.) same basis..pkg. .06 - —
chipped, crushed, bbls., same basis..lb. .06 - —
rice, cryst., powd., bbls., same basis..lb. .06¾- —
Nerolin, cryst., cns.....lb. 1.25 - 1.35
Nickel carbonate, bbls.....lb. .36 - .36½
Chloride, bbls.....lb. .18 - .20
Cyanide, 100-lb. dms.....lb. 1.40 - —
25-lb. bot.....lb. 1.50 - —
Oxide, black, bbls.....lb. .35 - .38
Salt, bbls.....lb. .13 - .13½
Nicotine sulphate, 40%, dms., works, frt. alld..lb. .70 - —
10-lb. tins.....lb. .86½- —
Nitercake, bulk, works.....ton.16.00 - —
Nitrobenzene, dbl. dist., dms., c.l. lb. .08 - —
l.c.l. .....lb. .09 - —
tanks .....lb. .07 - —
Nitrocellulose, alcohol-soluble, ½, and 40 sec. vis., bbls., works, lb. .28 - —
bronzing, 20, 40, 70 sec. vis., bbls., works..lb. .29 - —
ester-soluble, ¼, ½, 5-6, 15-20 sec., bbls., c.l., dry weight, works..lb. .22 - —
l.c.l., ¼, ½, 5-6, 15-20 and higher vis., bbls..lb. .26 - —
lacquer, 20-30 and 60-80 sec., vis., bbls., works..lb. .29 - —
Nitrocellulose prices are quoted on the basis of dry weight; denatured alcohol used in manufacture is charged extra. Barrels are to be paid for extra, but are returnable.
Nitrogen solution, nitrogen basis, tanks, f.o.b. Atlantic and Gulf ports..unit-ton.1.2158 - —
Nitrogenous fertilizer material, 8-11% ammon., dom., bulk, f.o.b. Carrollville, Wis., dlvd.....unit-ton. 2.00 - —
f.o.b. Chemical, Ill., unit-ton. 2.00 - —
East Coast producing points..unit-ton. 2.90 - —
import, bgs., c.i.f. Atlantic ports, shipt..unit-ton. 2.60 - —
Nitronaphthalene, bbls.....lb. .24 - .25
Nutgalls, Alleppo, bgs., cs....lb. .29 - .30
Extract (see Gall extract).
Nutmegs, 80s, bgs., cs.....lb. .23 - .23½
110s, bgs., cs.....lb. .20½- .21
West Indian, bgs.....lb. .12½- .13
Nux vomica, bls.....lb. .05 - .06
powd., bbls., bxs.....lb. .08 - .09

O

Oakbark extract, 25% tan., bbls., c.l., works..lb. .03½- —
l.c.l., bbls., works.....lb. .03⅝- —
tanks .....lb. .02¾- —
Ocher (see Yellow).
Octane, 100-140° C., mixed, dms., c.l., G.3..gal. .12½- —
l.c.l., G.3.....gal. .17 - —
tanks, G.3.....gal. .10½- —
Octyl acetate, dms., c.l., works.lb. .16 - —
l.c.l., works.....lb. .17 - —
tanks, works.....lb. .15 - —
Oil, almond, bitter, artif. (see Benzaldehyde),
natural, bots.....lb. 2.00 - 2.10
s.p.a., bots.....lb. 2.10 - 2.20
sweet, true, exp., cns....lb. 1.00 - 1.25
Amber, crude, cns.....lb. .19 - .20
ref'd, cns.....lb. .50 - .51
Amyris, cns.....lb. 3.00 - 3.25
Angelica root, bots.....lb.42.00 -45.00
seed, bots.....lb.70.00 -75.00
Anilin (see A).
Anise, USP, cns., dms.....lb. .73 - .78
Apricot, kernels, cns.....lb. .35 - .40
Babassu, tanks.....lb. .06¼- —
Bay, W. I., 50-55% phenols, cns..lb. 1.20 - 1.25
55-60% phenols, cns.....lb. 1.30 - 1.35
Bergamot, artif., cns.....lb. 1.25 - 1.30
natural, coppers.....lb. 4.25 - 4.50
Betula (see Oil, sweet birch).
Birch (see Oil, sweet birch).
Birchtar, crude, dms.....lb. .27 - .28
rectified, cns.....lb. .85 - .90
Bois de rose, Brazil, cns....lb. 1.60 - 1.65
Cade, USP IX (see Oil, juniper tar).
Cadjeput, tech., dms.....lb. .61 - .62
USP IX, cns.....lb. .71 - .72
Calamus, cns.....lb. 8.00 - 8.25

OUTSELLS ALL OTHER BRANDS COMBINED 3 TO 1

Exchange

OIL OF LEMON U·S·P·

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PRODUCTS DEPARTMENT, ONTARIO, CALIFORNIA

PRODUCING PLANT: EXCHANGE LEMON PRODUCTS CO., CORONA, CALIFORNIA

Myrobalans—Oil, Lemon

Oil, camphor, sassafrassy, cns., lb. .39 - .40
dms. .....lb. .36 - .37
white, cns.....lb. .52 Nom.
dms. .....lb. .50 Nom.
Cananga, native, cns.....lb. 1.75 - 1.80
rectified, cns.....lb. 2.20 - 2.25
Capsicum (oleoresin) N. F. VI, cns..lb. 2.50 - 2.75
Caraway, USP, cns.....lb. 3.00 - 3.25
Cardamon, bots.....lb.15.00 -16.00
Cassia, USP, cs., dms.....lb. 1.35 - 1.40
Castor, blown, one-way dms., c.l..lb. .14¾ Nom.
l.c.l. .....lb. .15½- —
medicinal, bbls., c.l.....lb. .13¾ Nom.
l.c.l. .....lb. .14 - —
cns. (1-gal.), l.c.l.....lb. .17 - —
dms. (returnable), c.l.....lb. .12½ Nom.
l.c.l. .....lb. .13¾- —
(5-gal), l.c.l.....lb. .15 - —
tanks .....lb. .12½ Nom.
No. 3, bbls., c.l.....lb. .12¾ Nom.
l.c.l. .....lb. .13¼- —
dms. (returnable), c.l.....lb. .12½ Nom.
l.c.l. .....lb. .13¼- —
tanks .....lb. .12 Nom.
dehydrated, dms., c.l.....lb. .181 Nom.
l.c.l. .....lb. .185 - —
tanks .....lb. .17½ Nom.
Castor oil, med. and No. 3, prices are dlvd. all points between N.Y. and Philadelphia, Albany, and N. E. States; Chicago c.l. prices ¾c. higher than N. Y.; l.c.l. prices ¾c. higher than N. Y.; one-way drums, ¼c. higher, all points.
sulphonated, 50% (43% fat), dms., c.l..lb. .09 - —
l.c.l. .....lb. .09½- —
75% (63% fat), dms., c.l..lb. .11 - —
80% (68% fat), dms., c.l..lb. .11¾- —
l.c.l. .....lb. .12¾- —
Cedarleaf, cs.....lb. 1.00 - 1.05
dms. .....lb. .95 - 1.00
Cedarwood, Oregon, cns., dms. lb. .28 - .30
Southern, cns., dms.....lb. .19 - .22
Celery bots.....lb. 7.25 - 7.50
Chaulmoogra, USP, cns., 500 lbs. lb. 1.00 - —
25 lbs. .....lb. 1.25 - —
Chinawood, dms.....lb. .27 - .28
tanks .....lb. .26 - .27
Cinnamon, Ceylon, bots.....lb. 9.25 -35.00
Seychelle, bots.....lb. 7.25 - 8.60
Citronella, Ceylon, cns.....lb. .43 - .44
dms. .....lb. .41 - .42
Java, cns., dms.....lb. .40 - .41
Clove, makers, USP, cns.....lb. 1.38 - 1.43
dms. .....lb. 1.33 - —
Coconut, Manila, crude, tanks, lb. .03¼- —
edible, 76°, tax incl., dms. (returnable), c.l..lb. .08¾- —
l.c.l. .....lb. .09¾- —
tanks .....lb. .07¾- —
Cod, Newfoundland, shipt., un-untanked..gal. .72 Nom.
Norwegian, shipt., bbls....gal. .65 Nom.
Codliver, med., USP, bbls..bbl.32.00 -35.00
Coriander, bots.....lb.12.50 -13.00
Corn, crude, tanks, wks....lb. .06¼- .06¼
refd., bbls.....lb. .08¼- .08¾
Cottonseed, cooking, bbls.....lb. .08¾- —
salad, bbls.....lb. .09¼- —
import, Brazilian, semi-refd., bulk..lb. .04 Nom.
Creosote (see C).
Croton, N.F., cns.....lb. 3.50 - 3.75
Cubeb, USP, cns.....lb. 3.50 - 3.75
Crude (see Petroleum, crude).
Cumin, bots.....lb. 7.50 - 8.00
Cypress, dom., bots.....lb. 5.25 - 5.50
import, cns.....lb.12.00 -12.25
Degras (see D).
Diesel, Bayonne, bulk.....bbl. 1.75 - —
California, 24 plus, bulk...bbl. 1.55 - —
Dill seed, bots.....lb. 3.00 - 3.25
weed, bots.....lb. 3.60 - 3.85
Dip (see L).
Erigeron, cns.....lb. 2.25 - 2.30
Eucalyptus, cns.....lb. .60 - .63
dms. .....lb. .57 - .60
Fennel, sweet, cns.....lb. 2.25 - 2.50
Fuel, bunker, California, tide-water..bbl. .90 - —
Gulf Coast.....bbl. .90 - .95
Louisiana, Arkansas, 10-14.bbl. .85 - 1.00
N. Y. and N. J. terminals:—
Monday .....bbl. 1.50 - —
Tuesday .....bbl. 1.50 - —
Wednesday .....bbl. 1.50 - —
Thursday .....bbl. 1.50 - —
Friday .....bbl. 1.50 - —
Saturday .....bbl. 1.50 - —
North Texas, 18-22.....bbl. .75 - .85
24-28, zero cold test.....bbl. 1.00 - 1.10
Oklahoma, 18-22.....bbl. .75 - .85
24-28, zero cold test.....bbl. 1.00 - 1.05
24-28, 15 and above.....bbl. .80 - .85
Pennsylvania, 3640.....gal. .04 - .04¼
Furnace, Bayonne, 1, bulk, refinery..gal. .05½- —
2, bulk, same basis.....gal. .05 - .0525
4, bulk, same basis.....gal. .0445- .0455
Louisiana - Arkansas, 32 - 36, light straw..gal. .03½- .03½
Oklahoma, 28-30.....gal. .03 - —
32-36 .....gal. .03⅝- .03½
36-38 .....gal. .03¾- .03¾
38-40 zero, 60 e.p.....gal. .03⅝- .04
Fusel (see F).
Gas, Bayonne, bulk.....gal. .04 - —
Gulf Coast, bulk.....gal. .03½- —
North Texas, bulk.....gal. .02⅞- —
Oklahoma, bulk.....gal. .03½- —
Gaultheria (see Oil, wintergreen leaf).
Geranium, Algerian, rose, cns., lb. 2.75 - 3.10
Bourbon, cns.....lb. 2.75 - 3.10
Turkish (see Palmarosa).
Grapefruit, cns.....lb. 1.75 - 1.80
Grapeseed, dms.....lb. .40 - .45
Ginger, dist., bots.....lb. 5.00 - 5.50
Guaiac wood, concrete, bots..lb. 2.50 - 2.55
Haarlem, import, bots....gross. 5.00 - 5.50
Hemlock, cns.....lb. 1.00 - 1.25
Juniper berry, USP, cns.....lb. 1.85 - 2.00
Wood, tech., cns.....lb. .45 - —
Juniper tar, USP XI, 1,000 lbs., dms..lb. .53 - .58
cns. .....lb. .55 - .60
Lard, common, 1, bbls.....lb. .08¾- —
2, bbls.....lb. .08½- —
extra, bbls.....lb. .09 - —
1, bbls.....lb. .08¾- —
Winter, strained, extra, bbls., lb. .09¼- —
prime, burning, bbls.....lb. .10 - —
prime, ined., bbls.....lb. .09¼- —
Laurel, bots.....lb. 4.50 - 4.66
Lavandin, cns., 25 lbs.....lb. 2.15 - 2.20
Lavender flower, French, 50% ester, cns..lb. 5.25 - 5.30
38-42% ester, cns.....lb. 4.00 - 4.05
35-38% ester, cns.....lb. 2.75 - 2.80
30-32% ester, cns.....lb. 2.50 - 2.60
garden, cns.....lb. .42 - .45
spike, Spanish, tech, cns...lb. 1.20 - 1.25
dms. .....lb. 1.15 - 1.20
Lemon, Calif., cns.....lb. 3.00 - —
Mesinna, coppers, cns.....lb. 3.10 - 4.00
Terpeneless, Type 1.....lb.10.75 -16.50
Type 2.....lb. 8.50 -14.50

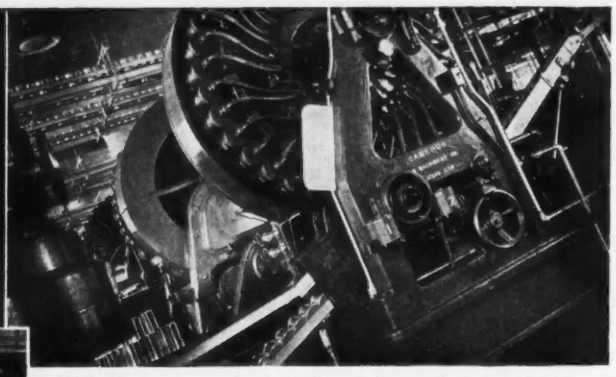
Oil, Lemongrass—Opium

Oil, lemongrass, native, cns., dms..lb. .80 - .85
Lime, dist., West Indian, cns. lb. 3.75 - 4.25
expressed, cns.lb. 7.25 - 7.50
Terpeneless, Type 1.lb.42.00 -46.50
Type 2.lb.60.00 -78.00
Linaloe wood, cns.lb. 1.50 - 1.60
Linseed, raw, bbls., c.l.lb. .1030- .1050
l.c.l., 10 to 69.lb. .1050- .1070
5 to 9.lb. .1090- —
less than 5.lb. .1110- —
tanks .lb. .0970- .0990
Boiled linseed oil .004 cents over raw.
Lovage, bots.lb.41.25 -60.00
Lubricating, at refinery (including U.S. tax 4c. per gal):—California, green, 70, 80, 100, vis., dms.gal. .20 - —
140 vis., dms.gal. .25 - —
green, pale, 750, 900 vis., dms..gal. .26 - —
green, pale, red, 200, 300, 350, 400, 450, 500, 600, 700 vis. dms..gal. .26 - —
Oklahoma, bright stocks, 100-110 D, color 4, 0-10 pour, tank..gal. .27 - —
15-25 pour, tanks..gal. .24 - —
150-160 D, color, 4½, 0-10 pour, tanks..gal. .28 - —
15-25 pour, tanks..gal. .26 - —
150-160 E, color 5½, 15-25 pour, tanks..gal. .27 - —
190-200 D, color 4¼, 15-25 pour, tanks..gal. .28 - —
neutrals, 0-10 pour, 150 vis., 3 colors, tanks..gal. .13 - —
180 vis., 5 color, tanks, gal. .15½- —

Oil, lubricating at refinery, Okla., neutrals, 180 vis., 4 color, tanks..gal. .15 - —
200 vis., 3 color, tanks, gal. .16½- —
4 color, tanks....gal. .16 - —
250 vis., 3 color, tanks, gal. .17 - —
250 vis., 4 color, tanks, gal. .16½- —
280 vis., 3 color, tanks, gal. .18½- —
4 color, tanks....gal. .18 - —
15-25 pour prices are ½c. per gallon higher than zero to 10° pour.
Penn., bright, 600, 10-15 pour, tanks..gal. .30 - .34
25 pour, tanks..gal. .32 - .35
cylinder, 600 fire, tanks, gal. .19 - —
600 flash, tanks.....gal. .23 - —
630 flash, tanks.....gal. .25 - —
635 fire, tanks.....gal. .21 - —
650 fire, tanks.....gal. .22 - —
Warren, E, amber, tanks, gal. .26 - —
Warren, E, neutral, 150 vis., 3 color, tanks..gal. .27 - .31
180 vis., 3 color, tanks.gal. .30 - .33
200 vis., 2 color, tanks.gal. .31 - .37
spot, Penna., bright, bbls., c.l., f.a.s..gal. .30 - —
unfiltered, 600 s.r....bbls., f.a.s..gal. .25 - —
600 flash, s.r., bbls., c.l. gal. .27 - —
630 flash, bbls., c.l., f.a.s., gal. .30 - —
Warren, E., bbls., c.l., f.a.s., gal. .28 - —
smaller lots, f.o.b..gal. .29 - —
Mace, dist., cns., dms.lb. 1.90 - 1.95

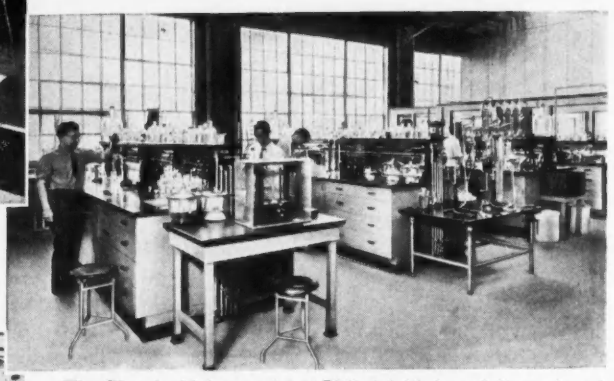
Oil, mandarin, superior, coppers, lb. 6.25 - 6.30
Menhaden, crude, tanks, f.o.b. Balto..gal. .35 Nom.
refd., alkali, dms.lb. .0810- —
tanks .lb. .0690- —
blown, dms.lb. .0830- —
kettle-boiled, dms.lb. .0930- —
light-pressed, dms.lb. .0750- —
tanks .lb. .0690- —
Mineral, white (see Oil, white mineral).
Mustard, artif., USP, cns....lb. 1.60 - 1.70
dist., natural, bots.lb. 8.50 - 9.00
Neatsfoot, 20° cold test, bbls., lb. .19¼- —
extra, bbls.lb. .09 - —
1, bbls.lb. .08¾- —
pure, bbls.lb. .14¼- —
prime, bbls.lb. .09¼- —
sulphonated, c o m m o n, 25% moisture, dms..lb. .10½- —
Neroli, bots.lb.100.00 -150.00
Nutmeg, USP, cns., dms.....lb. 1.90 - 1.95
Oiticica, dms.lb. .20 - .21
Oleo, 1, bbls.lb. .07¾- —
2, bbls.lb. .07½- —
Olibanum, bots.lb. 5.00 - 5.25
Olive, denat., bbls.gal. .95 - .98
edible, bbls.gal. 2.00 Nom.
foots, dms.lb. .08¾- .08½
sulphonated, 50% (42% fat), dms., c.l..lb. .11½ Nom.
l.c.l.lb. .12½ Nom.
75% (63% fat), dms., c.l..lb. .13½ Nom.
l.c.l.lb. .14½ Nom.
80% (68% fat), dms., c.l..lb. .14½ Nom.
l.c.l.lb. .15½ Nom.
Orange, sweet, dist., cs.....lb. .90 - —
Expressed, African, cns., dms., lb. 1.10 - 1.15
Calif, cns.lb. 1.60 - —
Florida, cns.lb. 1.20 - 1.25
Messina, USP, coppers.lb. 3.00 - 3.75
West Indies, cns.lb. 2.45 - 2.50
terpeneless .lb.68.00 -69.00

Oil, origanum, cns.lb. 1.10 - 1.65
Orris, Florentine, concrete, extra strong, bots..oz. 5.50 - 6.00
Palm, Niger, cks.lb. .05½ Nom.
shipment .lb. No prices
softs, 12½%, bulk, shipt.lb. No prices
20%, bulk, shipt.lb. No prices
Sumatra, shipt., bulk.lb. No prices
Palmarosa, cns.lb. 2.75 - 3.00
Palmkernel, bulk, shipt.lb. No prices
Paraffin, 320° flash, 60-70 vis., tanks, G. 3..gal. .05¼- —
350° flash, 70-80 vis., tanks, G. 3..gal. .05½- —
80-85 vis., bbls., extra, Ind. refy..gal. .12 - —
350° flash, 100-105 vis., bbls., extra, Ind. refy..gal. .14 - —
360° flash, 100-110 vis., tanks, G. 3..gal. .05¾- —
Patchouli, bots., cns.lb. 4.50 - 5.00
Peanut, crude, dom., tanks..lb. .06½ Nom.
refd., edible, bbls.lb. .09½- .09¾
Pennyroyal, dom., cns.lb. 3.00 - 3.10
import, cns.lb. 2.75 - 2.80
Peppermint, natural, cns., dms. lb. 2.75 - 3.00
redist., USP, cns., dms....lb. 3.00 - 3.25
Perilla, dms.lb. .19 Nom.
tanks .lb. .18½ Nom.
Petitgrain, Paraguay, cns....lb. 1.50 - 1.60
Pimento berry, cns.lb. 4.35 - 7.25
leaf, cns.lb. 2.75 - 3.00
Pine, dest.-dist., straw-color, dms., dlvd., E. ports....gal. .53 - .56
steam-dist., dms.gal. .59 - —
tanks .gal. .54 - —
Pineneedle, Siberian, cns....lb. 1.20 - 1.25
Putty, bbls., E. Segundo, Richmond, Cal..gal. .22½- —
contracts .gal. .19½- —
Whiting, Ind.gal. .28 - —
dms., c.l., Bost., Provid..gal. .25 - —
l.c.l., same basis.gal. .27 - —
tanks, same basis.gal. .18 - —
Martinez, Cal.gal. .28 - —
Rapeseed, blown, bbls.lb. .17 - .17½
denat., bbls.gal. 1.00 - 1.05
Red, dist. or saponif. dms., dlvd..lb. .08½- .09½
tanks, dlvd.lb. .08 - —
Rose, artif., bots.oz. 2.00 - 2.25
natural, coppers.oz. 5.25 -22.50
Rosemary, Spanish, cns.lb. .75 - .80
dms.lb. .70 - .75
Rosin, 1st rectfd., dms.gal. .50 - —
2d rectfd., dms.gal. .52 - —
3d rectfd., dms.gal. .56 - —
Rue, bots.lb. 3.00 - 3.25
Sage, cns.lb. 2.75 - 3.00
Sandalwood, E. I., USP, cns.lb. 5.25 - 5.50
Mysore, cns., case lots.lb. No prices.
Sardine, crude, tanks, Pac. Cst. gal. .37 Nom.
refd., alkali, dms.lb. .0810- —
tanks .lb. .0750- —
kettle-boiled, dms.lb. .0930- —
light-pressed, dms.lb. .0750- —
tanks .lb. .0690- —
Sassafras, artif., cns.lb. .77 Nom.
dms.lb. .75 Nom.
natural, cns., dms.lb. 1.20 - 1.25
Savin, cns.lb. 3.15 - 3.20
Savory, cns.lb. 2.00 - 2.25
Sesame, refd., dom., dms.lb. .11½- .11¾
Shingle stain, bbls., c.l., wks., gal. .19 - —
l.c.l., works .gal. .20 - —
tanks, works .gal. .14 - —
Snakeroot, Canada, cns.lb. 9.50 -10.00
Soybean, dom., crude, dms...lb. .06¾- .07¼
tanks .lb. .06 - —
refd., dms.lb. .08 - .08½
tanks .lb. .07¼- —
Spearmint, dms.lb. 2.20 - 2.25
Sperm, bleach, 38° dms.lb. .1030- —
45°, dms.lb. .0960- —
natural, dms.lb. .0910- —
Spruce, cns., dms. .lb. 1.00 - 1.25
Sweet, birch, North, cns.lb. 2.25 - 2.65
South, cns. .lb. 1.45 - 1.50
Tall, crude, dms., c.l., works, ton.35.00 - —
l.c.l., works.ton.40.00 -55.00
tanks, works .ton.25.00 - —
Refined, dms., c.l., works...lb. .04 - .05½
l.c.l., works.lb. .04½- .06¼
tanks, works.lb. .03½- .05
Tallow, acidless, bbls.lb. .08½- —
tanks .lb. .08 - —
Tansy, cns .lb. 6.00 - 6.25
Tar, pine, cm'l, dms., c.l., dlvd. E. cities..gal. .26 - —
E. ports .gal. .25 - —
l.c.l. .gal. .26 - —
tanks, dlvd. E. cities....gal. .20 - —
rectfd., USP, bbls., dlved., E. ports..gal. .59 - —
Tar acid (see T).
Teaseed, crude, dms.lb. .12½ Nom.
refined, dms.lb. .14 Nom.
Tea Tree (see Oil, Ti tree).
Thyme, NF, red, dms.lb. 1.35 - 1.40
white, dms.lb. 1.75 - 1.80
Tung (see Oil, chinawood).
Ti tree, cns.lb. 2.30 - 2.80
Turkey red (see Oil, castor, sulphonated).
Turpentine (see T).
Turtle, cns.gal. 7.50 Nom.
Valerian, bots.lb. 8.00 - 9.00
Vetiver, bots.lb. 8.50 -15.00
Walnut, crude, dms.lb. .15 Nom.
refd., dms.lb. .16 Nom.
Whale, refd., natural, dms..lb. .0910- —
winter, bleach, dms.lb. .0950- —
Wheat germ, cns., dms....gal.17.50 -25.00
White, mineral, dom., dms., tech., 50-60 vis., dms.gal. .33 - .34
65-75 vis., dms.gal. .40 - .46
80-90 vis., dms.gal. .41 - .47
USP, 80-90 vis., dms....gal. .44½- .50
95-105 vis., dms.gal. .57 - .58
125-135 vis., dms.gal. .64½- .65½
140-150 vis., dms.gal. .67 - .69
175-185 vis., dms.gal. .72½- .73½
200-210 vis., dms.gal. .74½- .75½
320-330 vis., dms.gal. .78 - .81
335-345 vis., dms.gal. .81 - .82
Russian, 80-90 vis., dms.gal. No prices
145-155 vis., dms.gal. No prices
175-185 vis., dms.gal. No prices
335-345 vis., dms.gal. No prices
Wintergreen, natural, North, cns..lb. 4.00 - 8.00
South, cns.lb. 3.05 - 3.75
synth (see Methyl salicylate).
Wood (see Oil, chinawood).
Wormseed, cns.lb. 3.75 - 4.00
Wormwood, cns.lb. 5.85 - 6.00
Ylang-ylang, Bourb., bots., cns. lb. 5.75 - 6.50
Manila, bots.lb.16.00 -24.00
Olivine, aggregate, c.l., mines, ton. 7.00 -11.00
Lumps, same basis.ton. 7.00 - —
Spalls, same basis.ton. 5.00 - —
ground, 325 mesh, c.l., mines, ton.20.00 - —
200 mesh, c.l., mines....ton.17.00 - —
100 mesh, c.l., mines....ton.15.00 - —
20 mesh to dust.ton.12.00 - —
Opium USP, cns.lb.11.50 -12.50
gran., cns.lb.12.50 -13.50
powd., cns.lb.12.50 -13.50

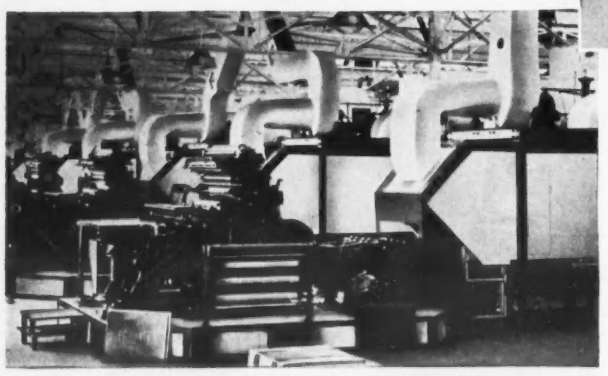


This big can tester is protection against leakage and is typical of the splendid, modern equipment in Crown's great new plant at Philadelphia.

Crown maintains large engineering staffs at Philadelphia and Baltimore for the development and fabrication of better containers.



The Chemical laboratories at Philadelphia have fully equipped bacteriological, chemical and processing departments. Raw materials are subject to the most rigid inspection.



Only the latest type of lithographing equipment is used in Crown's big plant. That is why Crown Cans are so superior in appearance and design. ★

AT all Crown plants, control is the watchword. Control of plate, control of dies and tools, control of all equipment by the most painstaking and unremitting inspection and supervision.

CROWN CAN COMPANY, PHILADELPHIA, PA.
Division of Crown Cork and Seal Co.
BALTIMORE ST. LOUIS HOUSTON MADISON ORLANDO

CROWN CAN

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Prepared Monthly by U. S. Industrial Chemicals, Inc.

USI SOLVENT NEWS USI

Reg. U.S. Pat. Off.

February ★ A Monthly Series for Chemists and Executives of the Solvents and Chemical Consuming Industries ★ 1940

Extensive Market Seen for DEREX In Cattle Sprays

U.S.I. Insecticide Activator Proves Exceptionally Effective

Greater efficacy of insecticidal sprays for cattle and other livestock is expected to result from the rapidly increasing use of DEREX, U.S.I.'s recently developed insecticide concentrate.

First introduced only a few months ago, DEREX has attained quick popularity among insecticide manufacturers because of the high efficiency which it makes possible at low cost.

Solvent Increases Activity

DEREX is a solution of derris root extractives in Dimethyl Carbobutoxy Dihydropyrone, a solvent developed by U.S.I., which possesses insecticidal properties of its own, and therefore, in addition to acting as a solvent, definitely increases the insecticidal activity of the dissolved substances.

DEREX is supplied by U.S.I. in two forms: one containing rotenone, the other rotenone-free, but having the same insecticidal strength.

U.S.I. will gladly furnish additional information on this unusual new insecticide activator.

DEREX is a U.S.I. product.

New Folder Describes Applications of Solox

Typical uses of Solox, U.S.I.'s proprietary solvent, in household, boat, and automobile applications, are described in a four-page folder which has just been issued. Included are helpful directions for the use of Solox in cleaning floors, metal articles, and windows; in conditioning fuel oil; in preventing settling of condensed moisture in fuel tanks; in thawing plugged drains; and in overcoming sticking engine valves.

Copies of this informative leaflet may be obtained by writing U.S.I.

Report High Yield of Wax With Mixture of Acetates

TULSA, Okla.—That wax-containing materials can be efficiently separated from petroleum stocks by a mixture of isopropyl and amyl acetates is claimed in a patent issued to two inventors here.

The method, it is stated, is a departure from previously used processes, which employed two solvents of radically different characteristics. The use of similar solvents, according to the inventors, gives excellent results, and is especially desirable for de-oiling petrolatum, which contains soft waxes undesirable in the finished product. The mixture of isopropyl and amyl acetates is said to display good selective action, holding the soft waxes in solution and producing a high yield of hard wax.

Amyl Acetate and Isopropyl Acetate are produced by U.S.I.

Ethyl Ether Finds New Uses In Industrial Solvents Field

U.S.I. Product Employed as Cleaner in White Shoe Industry, In Chemical Syntheses, and as Nitrocellulose Solvent With Alcohol

Development of new uses and expansion of established ones have greatly broadened the utility of ethyl ether as an industrial solvent of unusual properties.

Among the industries now using this U.S.I. product in large quantities is the white shoe industry, where the exceptional ability of ether to dissolve oils, fats, and greases makes it an excellent material for cleaning and spot removing. The manufacturers of hats and textiles also make wide use of ether for this purpose.

Other cleaning and degreasing applications include metal parts, machinery, electric motors, automobile brake bands, and plastics.

This solvent property of ethyl ether has been used to good advantage in many analytical procedures—for example, in the analyzing and testing of breadstuffs, dairy products, cocoa, flour, fats, oils, and soaps. A comparatively recent application is in the separation of extractives in wood. The procedure in this case is said to consist in subjecting the extractives to the successive action of steam, ether, alcohol and water. The ether serves as a solvent for the fats, fatty acids, phytosterol, resins, resin acids, and waxes.

A handy data table has been prepared, giving the blush resistance, boiling range, flash point, viscosity, water solubility, and dilution ratio with toluol and petroleum naphtha of more than 30 widely used solvents. Copies of this table may be obtained by writing U.S.I. Ask for Bulletin SP.

This article describes only a few of the many industrial applications of Ethyl Ether. A more comprehensive list, classified by industries, has been prepared for free distribution. Copies of this list may be obtained by writing U.S.I.

In Chemical Manufacture

Ether is finding many new applications in the manufacture of other chemicals. In addition to its use in the extraction of acetic acid from crude pyroligneous acid, it has established itself as a valuable tool in many forms of chemical synthesis. Its versatility in such applications can be illustrated by a few typical examples. It has been used for washing the product in a recently reported method for preparing esters of acrylic acid; in the preparation of neopentyl iodide and bromide; as an extracting agent in the preparation of allylmethylcarbinol; in making synthetic dye-

(*Continued on next page*)

Allied Trades Banquet To be Held Next Month

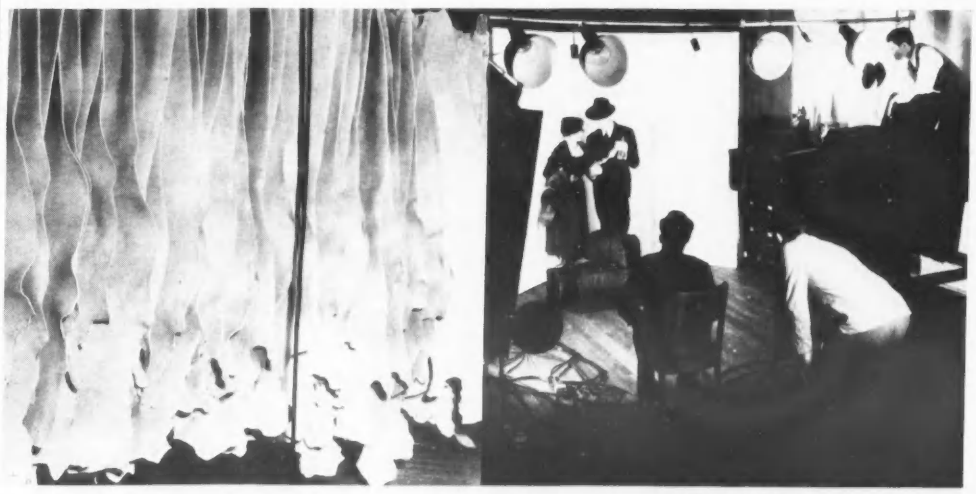
Big event next month is the 15th Annual Drug, Chemical, and Allied Trades Banquet, which will be under the sponsorship of the Drug, Chemical, and Allied Trades Section of the New York Board of Trade. Date is March 14; place is the Waldorf-Astoria, New York.

Reports on Paint Tests For Protection of Steel

Comparative studies of effectiveness of various types of paint in protecting steel structures against corrosion have been reported in *Verfkroniek*. Paints tested consisted of linseed oil, standoil, and linseed-tung standoil, pigmented with red lead, iron oxides, and mixtures of the two.

The tests indicated, it is said, that the protective value of red lead was best in linseed oil, intermediate in standoil, and poorest in linseed-tung standoil, while the order was reversed in the case of iron oxide.

It is also stated that the protection appeared to be proportional to film thickness, indicating the inadvisability of excessive thinning.



Ewing Galloway and Camera Guild.

The cleaning of hides in the leather industry and the making of films and emulsions for photographic purposes are two of the many applications which use Ethyl Ether extensively.

ADVERTISEMENT—*This entire page is a paid advertisement.*

February ★ # SOLVENT NEWS ★ 1940

Greaseproofs Fabrics With Zein and Alcohol

LONDON, England—That fibrous bodies, such as paper, cloth, cardboard, and fiber board, can be greaseproofed by a solution of zein is set forth in a patent issued here.

A suitable solution, it is claimed, has the following proportions:

Zein	100 parts
Diethylene Glycol	20 parts
Ethyl Alcohol	250 parts

Ethyl Alcohol is produced by U.S.I.

Industrial Uses of Ether

(*Continued from previous page*)

stuffs and non-alcoholic vanilla.

Many of the largest applications for ethyl ether depend on the fact that a mixture of ethyl ether and ethyl alcohol is an excellent solvent for nitrocellulose. This fact is utilized in the manufacture of propellants, photographic emulsions, explosives, collodion, and adhesive and coating compositions containing nitrocellulose. In spite of its excellent solvent properties, a mixture of alcohol and ether is not ordinarily employed in the manufacture of nitrocellulose lacquers, because lacquers containing ether display a marked tendency to blushing during drying. This property, however, aids in formulating non-transparent bottle cap lacquers, it is claimed.

Used as Alcohol Denaturant

Ether is also used as a primer for gasoline motors, and as a denaturant for Specially Denatured Alcohol Formulas S.D. 13A, 19, and 32. These formulas naturally are extensively employed where the ability of a mixture of alcohol and ether to dissolve nitrocellulose is a basic consideration. S.D. 13A, for example, is authorized for use in manufacturing cellulose compound lacquers, cellulose plastics, adhesives, binders, and inks.

U.S.I. produces ethyl ether in both U.S.P. and Absolute A.C.S. grades. The Absolute grade, because of its high purity, is used chiefly for laboratory work, in research or production control. The U.S.P. grade is used for the majority of industrial applications.

U.S.I. welcomes inquiries on the use of ethyl ether in industrial applications.

Additional data on the use of Curbay X for coal conditioning have been prepared to supplement the information which appeared in the January issue of SOLVENT NEWS. A bulletin containing these data has been prepared for distribution, and copies of it may be obtained by writing U.S.I. Ask for Bulletin CX.

Want Faster Ski Speeds? Try This Grease Coating

NORTH NEWPORT, N. H.—Faster ski speeds for outdoor enthusiasts are promised by a new grease coating, on which a patent has been issued to an inventor here.

Composition of the coating, according to the patent, is:

1/2 ounce of celluloid
1/3 pint of acetone
1/6 pint of shellac
1/12 ounce of powdered graphite

Acetone is produced by U.S.I.

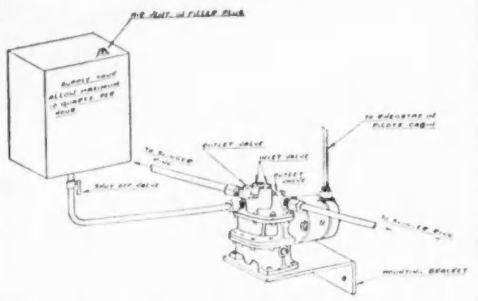
Equipment Maker Recommends Solox for Plane De-Icing

U.S.I.'s Solox has been selected by a manufacturer of anti-icing equipment as an excellent vehicle for the glycerine used in anti-icing of plane propellers.

"Continued research and experimentation," reports the manufacturer in his Service Bulletin, giving recommendations for installation of the equipment, "has resulted in the recommendation of the following solution:

85 parts Solox
15 parts C. P. Glycerine

"In order to assure proper operation of the propeller anti-icer pump, it is essential that the above solution be utilized."



This schematic diagram shows a typical propeller anti-icing installation for supplying a solution of Solox and glycerine to the slinger ring.

Describes Varnish Formula

A varnish said to be suitable for protecting the gelatin surface of a processed photographic film or plate has the following proportions:

Shellac	75 grams
Sandarac	75 grams
Castor oil	2 cc.
Absolute Alcohol	1 liter

Absolute Alcohol is produced by U.S.I.

TECHNICAL DEVELOPMENTS

Further information on these items may be obtained by writing to U.S.I.

A liquid cleaner is reported to remove hard encrusted inks of all colors from type and printing equipment. According to the manufacturer, it contains an inhibitor which tends to preserve metal surfaces, and is free of acid or injurious materials. **(No. 300)**

U S I

A floor wax of the water-emulsion type is waterproof after 20 minutes, it is reported. The maker recommends it for use on linoleum, terrazzo, wood, or concrete form. It is available in several colors. **(No. 301)**

U S I

"Alkali ice" can be removed from marble, tile, terrazzo, or concrete floors by a new cleaner, it is said. Cleaner is reported to be non-staining. After use of the cleaner, floor is reported to be absolutely neutral, with a pH of 7. **(No. 302)**

U S I

New resins of the modified polystyrene type are reported to be hard, tough, and elastic. The maker suggests their use in such fields as adhesives, plastic molding compounds, and surface coatings where contact with petroleum oils is necessary. The resins are not compatible with vegetable drying oils. **(No. 303)**

U S I

A brazing material in powder form is said to be suitable for brazing copper, brass, and bronze. It is packed in spouted cans, from which it may be fed to the joint. According to the manufacturer, it melts at about 1,400°F.; penetrates quickly to make sound joints; has an electrical conductivity in the finished joint of about 98% of rolled copper bar **(No. 304)**

U S I

An addition agent for pickling baths is said to lower the surface tension of sulphuric or hydrochloric acid pickling solutions, and thus to result in savings of acid. It is also claimed that the acid pickle containing the addition agent will function as a cleaner. **(No. 305)**

U S I

A synthetic wax is said to have a melting point of 133-134°C., but to be less hard and brittle than most high-melting waxes. According to the manufacturer, it is insoluble in water, soluble hot in mineral spirits, turpentine, toluol, naphtha, and similar hydrocarbon solvents. **(No. 306)**

U S I

An alkaline cleaner is reported to be non-corrosive to tin, tin-plate, and aluminum. Maker states that it is a true alkaline cleaner, but contains a special agent that inhibits corrosion. It is said to contain no soap, fats, or oils, and to be perfectly soluble in hot or cold water. **(No. 307)**

U S I

A synthetic oil is said to replace chinawood oil in many instances in paints, varnishes, and printing inks. It is reported that tests indicate that gloss and drying properties are similar to chinawood oil, but that alkali resistance is somewhat lower. **(No. 308)**

U S I

A new finish is reported to combine wax and a synthetic resin lacquer in a single coating. It is said to be available in a wide range of colors. **(No. 309)**

U.S.I. INDUSTRIAL CHEMICALS, INC.

60 EAST 42ND ST., N. Y. (U.S.I.) BRANCHES IN ALL PRINCIPAL CITIES

A SUBSIDIARY OF U. S. INDUSTRIAL ALCOHOL CO.

ALCOHOLS
Amyl Alcohol
Butyl Alcohol
Fusel Oil—Refined
Methanol

Ethyl Alcohol
Anhydrous
Absolute
C. P. 96%
Pure (190 proof)
Specially Denatured
Completely Denatured
U. S. I. (Denatured Alcohol Anti-freeze)
*Super Pyro Anti-freeze
*Solox Proprietary Solvent

***ANSOLS**
Ansol M
Ansol PR

ESTERS, ACETATES
Acetic Ether
Amyl Acetate
Butyl Acetate
Ethyl Acetate

ESTERS, ETHYL
*Diatol
Diethyl Carbonate
Diethyl Oxalate
Ethyl Chlorocarbonate
Ethyl Formate
Ethyl Lactate

*Registered Trade Mark

ESTERS, PHTHALATES
Diamyl Phthalate
Dibutyl Phthalate
Diethyl Phthalate
Dimethyl Phthalate

OTHER ESTERS
Amyl Propionate
Butyl Propionate
Dibutyl Oxalate

INTERMEDIATES
Acetoacetanilid
Acetoacet-o-chloranilid
Acetoacet-o-toluidid
Ethyl Acetoacetate
Sodium Ethyl Oxalacetate

ETHERS
Ethyl Ether
Ethyl Ether Absolute—A.C.S.

OTHER PRODUCTS
Acetone, C.P.
Colladions
*Curbay Binders
*Curbay X (Powder)
Derex
Ethylene
Methyl Acetone
Nitrocellulose Solutions
Potash, Agricultural
*Vacatone
*Curbay B-G

Orange Lake, Persian, bbls....lb.	.30	- .45
Mineral, Amer., bbls., 5 tons, dlvd. Ala., Ark., Cal., Fla., Ga., La., Miss., Okla., Tex., and W. of Cascade Mts. in Ore. and Wash....lb.	.11	- —
Ariz., Idaho, Nev., Utah and E. of Cascade Mts. in Ore. and Wash...lb.	.11½	- —
Colo., Mont., N. M., Wyo..lb.	.11¼	- —
Other points.....lb.	.10¾	- —
smaller lots, dlvd., Ala., etc..lb.	.11½	- —
Ariz., etc.....lb.	.12	- —
Colo., Mont., N. M., Wyo..lb.	.11¾	- —
Other points.....lb.	.11¼	- —
Mineral, French, Tours, casks, ex dock..lb.	.13½	- —
kgs., ex dock.....lb.	.14½	- —
Molybdate, bbls.....lb.	.31	- —
Toner, bbls.....lb.	.80	- —
Orangeflower petals, cs.....lb.	.50	- .65
Orange peel, bitter, bls.....lb.	.09	- .10
sweet, bls.....lb.	.17	- .19
Orris root, Florentine, bgs.....lb.	.12	- .14
fingers, cs.....lb.	1.25	- 1.30
powd., bbls., bxs.....lb.	.16	- .17
Verone, bls.....lb.	.11	- .14
powd., bxs., cs.....lb.	.15	- .16
Orthoanisidin, bbls.....lb.	.70	- —
Orthochloroaniiin, dms.....lb.	.60	- .75
Orthochlorophenol, dms.....lb.	.82	- —
Orthocresol, dms., c.l., works.lb.	.16	- —
l.c.l., same basis.....lb.	.16½	- —
Orthodichlorobenzene, dms., c.l., works, frt. alld. E. of Rockies..lb.	.06	- —
l.c.l., same basis.....lb.	.07	- —
100-lb. tins, same basis.lb.	.08	- —
50-lb. tins, same basis..lb.	.09	- —
tanks, same basis.....lb.	.05½	- —
Orthodichlorobenzene prices west of Rockies 1c. per lb. higher		
Orthonitroaniiin, dms.....lb.	.55	- —
Orthonitrochlorobenzene, dms..lb.	.15	- .18
Orthonitroparachlorophenol, cns.lb.	.75	- —
Orthonitrotoluene, dms.....lb.	.09	- —
Orthophenetidin, dms.....lb.	.80	- —
Orthotoluidin, dms.....lb.	.19	- —
Osage orange extract, cryst., bbls., lb.	.21	- —
liquid, 42°, bbls.....lb.	.09	- —
51°, bbls.....lb.	.10	- —
Oxyquinolin sulphate, cns., 100-lbs., works..lb.	3.50	- —
bots., cns., 1-50 lbs.....lb.	3.65	- 4.00
Orthotoluene hydrochloride, dms.lb.	.22	- —
Sulphonate, kgs.....lb.	2.00	- 2.05

P

Papain, powd., cs.....lb.	1.50	- 1.60
Paprika, Hungarian, extra fancy, bgs..lb.	.33	- .34
medium, bgs.....lb.	.29½	- .30
Portuguese, extra fancy, bgs.lb.	.31½	- .32
fancy, bgs.....lb.	.30½	- .31
Spanish, extra fancy, cs.....lb.	.36	- .37
Parachlorophenol, dms.....lb.	.32	- —
Paracymene, refd., dms.....gal.	.75	- 1.25
Paradichlorobenzene, dms., c.l.lb.	.11	- .12
l.c.l. .....lb.	.12½	- .15½
Paraffin, crude, scale, white 122-124 A.m.p., bgs., c.l., Okla., refy..lb.	.05¾	- .06¼
bbls., c.l., N.Y.....lb.	.07	Nom.
124-126 A.m.p., bgs., c.l., Okla., refy..lb.	.06	- .06¾
bbls., c.l., N.Y.....lb.	.07	Nom.
yellow, 124-126 A.m.p., bbls., c.l., N.Y..lb.	.07	Nom.
fully refd., slabs, 123-125 A.m.p., bgs., c.l..lb.	.0660	—
loose, c.l.....lb.	.0625	—
125-127 A.m.p., bgs., c.l..lb.	.0675	—
loose, c.l.....lb.	.0640	—
128-130 A.m.p., bgs., or loose, c.l..lb.	.0680	—
131-133 A.m.p., bgs., or loose, c.l..lb.	.0705	—
133-135 A.m.p., bgs., or loose, c.l..lb.	.0730	—
135-137 A.m.p., bgs., or loose, c.l..lb.	.0755	—
138-140 A.m.p., bgs., or loose, c.l..lb.	.0830	—
143-145 A.m.p., bgs., or loose, c.l..lb.	.0925	—
151-153 A.m.p., bgs., or loose, c.l..lb.	.70	Nom.

Refined paraffin prices in cases are 1½c. lb. higher than bags price; solid in tankcars is 5c. lower.

match, A.m.p. up to and incl. 110-112 bbls. c.l..lb.	.06¼	Nom.
semirfd., solid., 122-124 A.m.p., bgs..lb.	.06½	Nom.
Paraformaldehyde, dms., 1,000 lbs. or more shipments, f.o.b. Perth Amboy, Philadelphia, or N.Y.C..lb.	.34	- —
100 to 900 lbs. shipments, same basis..lb.	.35	- —
Paraldehyde, tech., 99%, 55 and 100 gal. dms., c.l., works, lb.	.10	- —
l.c.l., works.....lb.	.11¼	- —
5 and 10-gal. dms., works..lb.	.15	- —
USP, cs., cbys.....lb.	.37	- 45
Paranisidine, dms.....lb.	.75	- —
Paranitroanilin, kgs., works...lb.	.47	- —
Paranitrochlorobenzene, kgs....lb.	.15	- —
Paranitrophenol, kgs.....lb.	.35	- —
Paranitrotoluene, kgs.....lb.	.30	- —
Paraphenylenediamine, bbls....lb.	1.25	- 1.30
Paratoluenesulphonamide, bbls.lb.	.70	- —
Paratoluidin, bbls.....lb.	.48	- —
Pareira brava root, bls.....lb.	.21	- .22
Paris green, dealer, dms., bbls., c.l., f.o.b. works, frt. alld. lb.	.23	- .25
less car lot, same basis.lb.	.24	- .26
Passion flower, herb, bls.....lb.	.07	- .08
Patchouli leaves, bls.....lb.	.28	- .30
Pellitory root, bls.....lb.	.28	- .29
Pennyroyal leaves, bls.....lb.	.15	- .16
Pentanes norm., 28-38°, dms., c.l., G.3..gal.	.11½	- —
l.c.l., G.3.....gal.	.16	- —
tanks, G.3.....gal.	.08½	- —
laboratory grade, dms., c.l., G.3. gal.	.14	- —
l.c.l., G.3 .....gal.	.25	- —
Pepper, black, Aleppey, bgs...lb.	.08	- .08½
Lampong, bgs.....lb.	.0420	.0440
Tellicherry, bgs.....lb.	.08	- .08½
Red, chillies, Japan, Hontaka, lb.	.20¼	- .20½
Mombassa, bgs.....lb.	.40	- .41
White, Java, Muntok, bgs...lb.	.07¾	- .08¼
Saigon bgs. .....lb.	.07½	- .08
Peppermint leaves, dom., bls..lb.	.32	- .33
import, bls.....lb.	.45	- .50
Perchlorethylene, dms., c.l., works, frt. alld., zone 1..lb.	.08	- —
l.c.l., same basis.....lb.	.08½	- —
Zone 2, dms., c.l., works, frt. alld..lb.	.08½	- —
l.c.l., same basis.....lb.	.09	- —
Perchlorethylene, zone 3, dms., c.l., works, frt alld..lb.	.09	- —
l.c.l., same basis.....lb.	.09½	- —
Zone 4, dms., c.l., f.o.b. stock points..lb.	.09	- —
l.c.l., same basis.....lb.	.09½	- —

All prices on perchlorethylene are frt. alld with the exception of zone 4, in which case the prices indicated are based on f.o.b. L. A., Cal., S. F., Cal., Portland, Ore., and Seattle, Wash. Zone 1 includes the following States:—Conn., Md., N. Y., Va., Ky., Me., N. J., Vt., W. Va., Mo., N. H., Tenn., Ind., Ia., Pa., R. I., Ill., Mich., Minn., Wis., Del., Mass., N. C., O., Omaha, Neb., Kansas City, Kansas. Zone 2 includes Ala., Kan., except Kansas City, N. D., Ga., Neb., except Omaha, S. D., Miss., Ark., S. C., La., Okla., and Fla. Zone 3 includes Colo., N. M., Wyo., Texas and Eastern Montana. Zone 4 includes Arizona, Western Montana, Idaho, Ore., Nev., Wash., Utah and Cal.

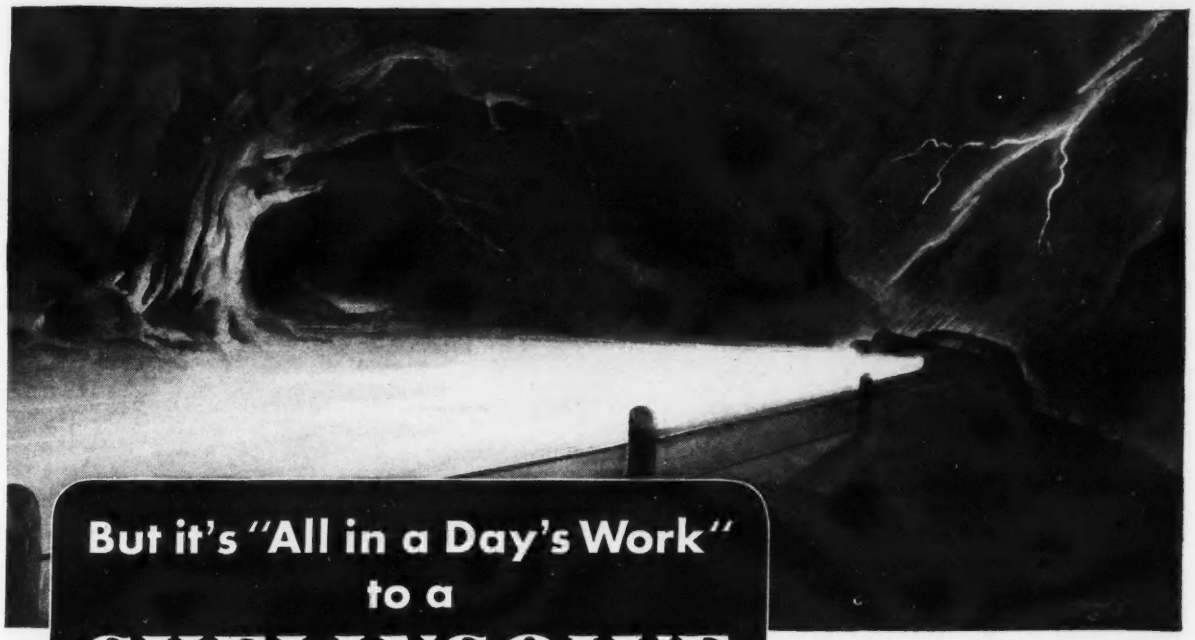
Peru, balsam dms.....lb.	1.10	- 1.15
Petrolatum, amber, dms., c.l..lb.	.04	- —
l.c.l. .....lb.	.05	- —
amber, extra, dms.....lb.	.04¼	- —
l.c.l. .....lb.	.05¼	- —
veterinary, dms., c.l.....lb.	.03⅞	- —
white, cream, dms., c.l.....lb.	.06	- —
l.c.l. .....lb.	.07½	- —
lily, dms., c.l.....lb.	.07	- —
l.c.l. .....lb.	.08½	- —
snow, dms., c.l.....lb.	.08	- —
l.c.l. .....lb.	.09½	- —
Petroleum, crude, bulk, at wells:—		
California .....bbl.	.63	- 1.75
Canada .....bbl.	2.10	- 2.17
Central West:—		
Illinois .....bbl.	.53	- 1.00
Lima .....bbl.	.90	- —
Michigan .....bbl.	.82	- 1.02
Princeton .....bbl.	1.05	- —
Petroleum, crude, bulk at wells:—		
East Texas.....bbl.	1.10	- —
Gulf Coast.....bbl.	.74	- 1.41
Kentucky, Tennessee.....bbl.	1.02	- 1.10
Louisiana, Arkansas.....bbl.	.73	- 1.20
Mexico .....bbl.	No prices	
Midcontinent:—		
North Texas.....bbl.	.51	- 1.10
Oklahoma-Kansas .....bbl.	.58	- 1.10
Pennsylvania, Ohio, West Virginia:—		
Bradford-Allegany ....bbl.	2.75	- —
Corning .....bbl.	1.17	- —
Pennsylvania grade, in Buckeye lines..bbl.	1.70	- —
Eureka lines.....bbl.	2.34	- —
N. Y. Transit lines, bbl.	2.75	- —
S. W. Penn lines...bbl.	2.40	- —
lower district in National Transit lines.bbl.	2.63	- 2.75
Rocky Mountains.....bbl.	.51¼	- 1.30
South Central and Southwestern Texas..bbl.	.73	- 1.27
Texas Panhandle.....bbl.	.67	- .96
West Texas.....bbl.	.53	- .95
Ether, 30-60° dms., c.l., G.3, gal.	.14½	- —
l.c.l., G.3.....gal.	.25½	- —
tanks, G.3.....gal.	.13½	- —
35-60°, dms., l.c.l., G.3....gal.	.30½	- —
40-75°, dms., c.l., G.3....gal.	.14½	- —
l.c.l., G.3.....gal.	.25½	- —
tanks, G.3.....gal.	.13½	- —
laboratory grade, dms., c.l., G.3..gal.	.14½	- —
c.l., G.3.....gal.	.25½	- —
10-gal. lots, G.3.....gal.	.50½	- —
lacquer, diluent, at refinery:—		
California, 100 i.b.p., 200 e.p., tanks, delvd. Los Angeles..gal.	.11	- —
San Francisco..gal.	.11½	- —

Orange Lake—Pet. Naph.

Petroleum, lacquer diluent, at refinery, California, f.o.b. Richmond..gal.	.11	- —
Willbridge, Ore., Ft. Wells, Wash..gal.	.12	- —
East Coast, tanks.....gal.	.09½	- .10
Group 3, toluol type, tanks., gal.	.07⅝	- —
benzol type, tanks.....gal.	.07⅞	- —
Naphtha, cleaners', at refinery:—		
East Coast, tanks.....gal.	.09	- .10½
Group 3, tanks.....gal.	.06¾	- .07
tankwagon, Boston, ex tax. gal.	.12¼	- —
Bridgeport .....gal.	.12½	- —
Chicago, inc. 4c. tax..gal.	.18	- —
Decatur, inc. 4c. tax..gal.	.1910	- —
Des Moines, inc. 4c. tax, gal.	.1890	- —
Evansville, inc. ex tax.gal.	.15	- .16
Milwaukee, inc. 5c. tax, gal.	.2030	- —
Minneapolis-St. Paul, inc. 5c. tax..gal.	.20½	- —
Newark, ex tax.....gal.	.10½	- —
New York, ex tax.....gal.	.10¼	- —
Omaha, ex tax.....gal.	.1490	- .1500
Oklahoma City, ex tax.gal.	.16¼	- —
Philadelphia, ex tax...gal.	.12	- —
St. Louis, inc. 1c. tax.gal.	.15¼	- —
Syracuse, 150 gals.....gal.	.14¼	- —
smaller lots, galv. drums, gal.	.10	- —
milk cans.....gal.	.21	- —
high-solvency, aromatic, No. 1, over 70% arom., tanks, f.o.b. Bayway..gal.	.18	- —
2, over 90% arom., same basis..gal.	.19	- —

It's an all-night drive

from St. Louis to Eau Claire, Wisconsin



But it's "All in a Day's Work" to a

SKELLYSOLVE FIELD MAN

They needed some expert advice . . . in a hurry! So the Skellysolve field man was there when the plant opened the next morning, ready to track down the trouble. It meant driving all night, but there he was when his specialized knowledge was needed. The fact that the Skellysolve they were using was not the cause of the difficulty was beside the point. The fact that he located the trouble and corrected it was all that mattered. That was rendering "Dependable Skelly Service." That was his job.

You may never require such a demonstration of Skelly's willingness to render more-than-ordinary service. Perhaps Skellysolve's purity, uniformity, close boiling ranges, and *dependability of supply* are all that seem important to you now. But there is reassurance in the knowledge that such technical assistance is available on call. Not alone in cases of emergency. But whenever you desire the counsel of experts who are specialists in solving your solvent problems. Why not discuss your requirements with a Skellysolve man, on a definite no-obligation basis? Let us know when we can have him call.

SKELLYSOLVE
in the
OIL, PAINT and DRUG FIELD

The Skellysolve line includes naphthas specially fractionated for all laboratory and industrial uses. We furnish a full line of V. M. & P. naphthas, mineral spirits and lacquer diluents, as well as many other special hydrocarbons. Our technical staff has aided many manufacturers in developing formulas for new or improved products which have proved of great value. Write or wire for full information today.

SKELLY

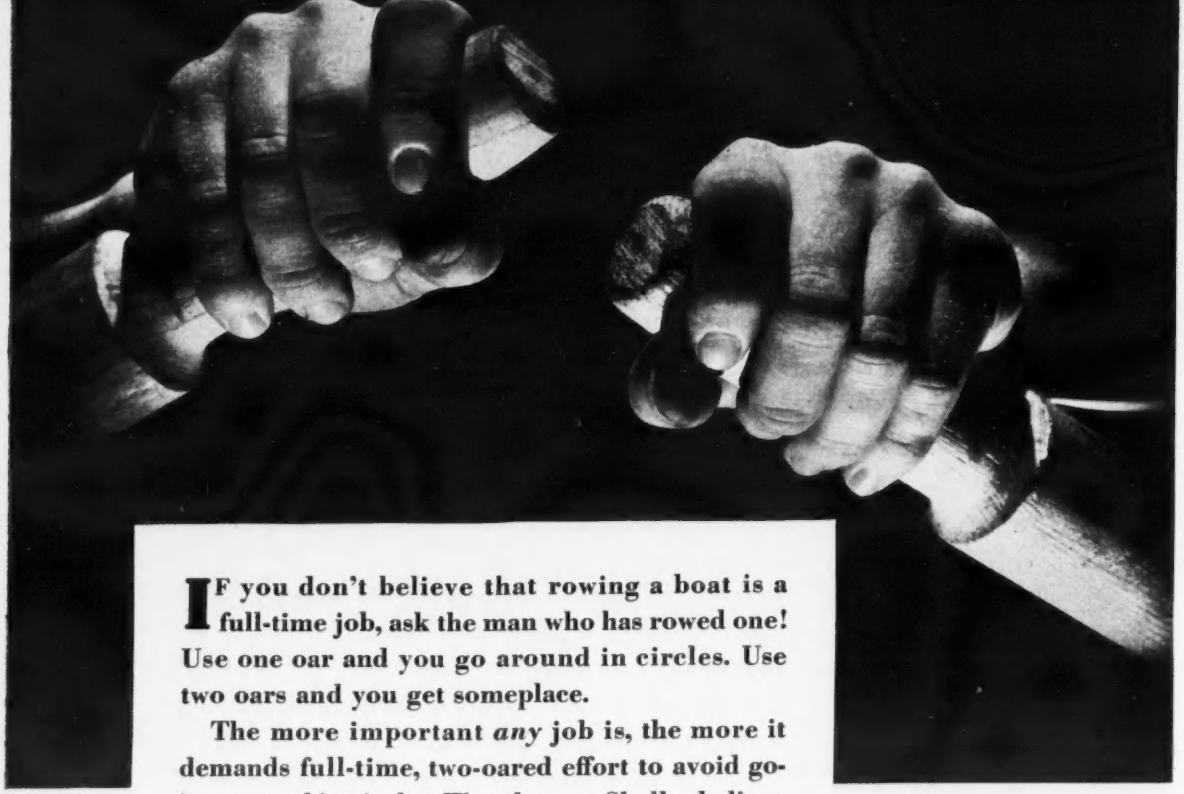
SKELLYSOLVE

SOLVENTS DIVISION, Skelly Oil Co., 4814 S. Richmond St., Chicago, Ill.
A. Ernest MacGee, *Manager*
WIRE OR WRITE TODAY FOR INFORMATION OR PRICES!

Pet. Naph.—Potash, Metab.

Petroleum naphtha, high solvency, aromatic, No. 3, same basis	gal.	.20 - —
3, tanks, f.o.b. Paulsboro, N. J.	gal.	.15½- —
30, same basis	gal.	.16½- —
40, same basis	gal.	.16½- —
v.m.&p., at refinery:—		
California, 46.5, 254 i.b.p., 380 e.p., tanks, f.o.b. El Segundo	gal.	.11 - —
Richmond	gal.	.11½- —
Willbridge, Ore., Pt. Wells, Wash.	gal.	.12 - —
54-57, 190 i.b.p., 310 e.p., tanks, dlvd. Los Angeles	gal.	.10 - —
San Francisco	gal.	.10½- —
Portland, Seattle	gal.	.11 - —
East Coast, tanks	gal.	.09½- —
Group 3, tanks	gal.	.06⅞- .07
tankwagon, Boston, ex tax	gal.	.14½- —
Chicago, inc. 4c. tax.	gal.	.17 - —
Des Moines, inc. 4c. tax.	gal.	.1890- —
Decatur, inc. 4c. tax.	gal.	.1910- —
Evansville, Ind., ex tax	gal.	.1520- .1620
Milwaukee, inc. 5c. tax.	gal.	.2030- —
Minneapolis-St. Paul, inc. 5c. tax.	gal.	.20 - —
Newark, ex tax	gal.	.11½- —
New York, ex tax	gal.	.10½- —
Omaha, ex tax	gal.	.1490- .1590
Philadelphia, ex tax	gal.	.13 - —
St. Louis, inc. 1c. tax.	gal.	.1570- —
Solvent, rubber, at refinery, East Coast, tanks.	gal.	.09½- —
Group 3, light, 120 i.b.p., 250 e.p., tanks.	gal.	.06⅞- .07
Petroleum, solvent, rubber, standard, 180 i.b.p., 288 e.p., tanks.	gal.	.06⅞- .07
Stoddard (CS 3-38), at refinery:—		
East Coast, tanks	gal.	.08⅝- .09⅛
Group 3, tanks	gal.	.06⅝- .06⅛
tankwagon, Boston, ex tax,	gal.	.14 - —
Chicago, inc. 4c. tax.	gal.	.1640- —
Decatur, inc. 4c. tax.	gal.	.1860- —
Des Moines, inc. 4c. tax.	gal.	.1840- —
Evansville, Ind., ex tax.	gal.	.14 - .15
Milwaukee, inc. 5c. tax.	gal.	.1980- —
Minneapolis-St. Paul, inc. 5c. tax.	gal.	.1820- —
Newark, ex tax	gal.	.09½- —
New Orleans, ex tax.	gal.	.11 - —
New York, ex tax	gal.	.09½- —
Omaha	gal.	.1360- .14½
Philadelphia, ex tax.	gal.	.13 - —
St. Louis, inc. 1c. tax.	gal.	.1340- —
Tulsa, ex tax	gal.	.10½- .11½
Thinners, at refinery:—		
California, 34, 325 i.b.p., 390 e.p., low anilin, 6,000 gal. tanks or transport trucks, f.o.b. Los Angeles.	gal.	.15 - —
Portland, Ore.	gal.	.16 - —
Richmond	gal.	.14½- —
Seattle, Wash.	gal.	.16½- —
44, 311 i.b.p., 385 e.p., tanks, f.o.b. Point Wells, Wash.; Willbridge, Ore.	gal.	.16½- —
Richmond	gal.	.10 - —
Southern Calif.	gal.	.09½- —
200 i.b.p., 300 e.p., f.o.b. El Segundo.	gal.	.11 - —
Portland, Ore.	gal.	.12 - —
Richmond	gal.	.11½- —
Seattle, Wash.	gal.	.12 - —
Petroleum, thinners, at refinery:—		
East Coast, 43-47, tanks.	gal.	.08⅝- .09½
47-49, tanks	gal.	.10½- —
New Jersey, tanks	gal.	.09 - —
Group 3, tanks	gal.	.05⅝- .06
tankwagon, tax included:—		
Albany	gal.	.13½- —
Baltimore (100 gals.)	gal.	.14 - —
25-99 gals.	gal.	.16 - —
Boston	gal.	.13½- —
Bound Brook, North Amboy, N. J.	gal.	.13½- —
Bridgeport, Conn.	gal.	.11½- —
Buffalo	gal.	.15½- —
Camden, N. J.	gal.	.10 - .11½
Chicago	gal.	.1670 - —
Decatur	gal.	.1810 - —
Des Moines	gal.	.1790 - —
Evansville, Ind.	gal.	.1420 - .1520
Milwaukee	gal.	.1930 - —
Minneapolis-St. Paul	gal.	.19½- —
Newark	gal.	.09½- —
New York (200 gals.)	gal.	.09½- —
Omaha	gal.	.1360- .1460
Philadelphia	gal.	.12½- —
Pittsburgh	gal.	.11½- .13½
Providence	gal.	.12 - —
Rochester	gal.	.12½- —
St. Louis	gal.	.1470- —
Syracuse	gal.	.13 - —
Trenton	gal.	.10½- —
Wilmington, Del.	gal.	.12½- —
Phenobarbital, 5-lb. bots.	lb.	3.95 - —
bots. or cns., 100 lbs., spot or contract.	lb.	3.60 - —
25-lb. cns.	lb.	3.85 - —
Phenol, USP, dms., c.l., works, frt. equald.	lb.	.13 - —
l.c.l., same basis	lb.	.13¾- —
under 1,000 lbs.	lb.	.14¾- —
tanks, works	lb.	.12 - —

IT TAKES TWO OARS TO ROW A BOAT



IF you don't believe that rowing a boat is a full-time job, ask the man who has rowed one! Use one oar and you go around in circles. Use two oars and you get someplace.

The more important *any* job is, the more it demands full-time, two-oared effort to avoid going around in circles. We...here at Shell...believe that naphthas are *that* important.

That's why Shell maintains a staff of Naphtha Technicians . . . a separate group whose time is entirely devoted to the study of naphthas. Each member of this staff is a graduate chemical engineer, especially trained and experienced in the use and characteristics of naphthas.

The services of these men are available to you without cost. Just phone or write the nearest Shell Office.

SHELL NAPHTHAS

Phenolphthalein, USP, bbls., dms., 2,000-lb. lots	lb.	.85 - —
bbls., dms., kegs, 100-250 lbs.,	lb.	.87 - .89
yellow, fib. dms., 2,000-lb. lots,	lb.	.80 - —
100-lb. fib. dms	lb.	.82 - —
25-lb. dms.	lb.	.87 - —
50-lb. kgs.	lb.	.84 - —
Phenyl chloride, dms.	lb.	.17 - —
Phenylacetaldehyde, bots.	lb.	2.10 - 2.50
Dimethylacetate, cns.	lb.	14.50 -15.00
Phenyl ethyl acetate, cns.	lb.	2.45 - 2.50
Phenylethylphenyl acetate, bots.,	lb.	7.90 -15.50
Phenylhydrazine, base, CP, bots.,	lb.	4.00 - —
Hydrochloride, CP, bots., works.	lb.	4.00 - —
commercial, kgs., works.	lb.	1.50 - —
pure, bbls., works.	lb.	2.25 - —
Phloroglucinol, CP, tins, works.	lb.	20.00 -22.00
tech., tins, works.	lb.	15.00 -16.50
Phosphate rock, Fla., high-grade, hard, 77% basis, 76% min., bulk, mines.	long ton.	4.35 - —
land pebble, 68% min., bulk, mines.	long ton.	1.90 - —
70% min., bulk, mines,	long ton.	2.15 - —
72% min., bulk, mines,	long ton.	2.40 - —
75% basis, 74% min., bulk, mines.	long ton.	2.90 - —
Tenn., 72% bulk, mines, long	ton.	4.50 - —
75% bulk, mines.	long ton.	5.50 - —
Phosphorus, red, cs.	lb.	.40 - .44
yellow, dms.	lb.	.18 - .20
cases	lb.	.23 - .25
Oxychloride, cyls.	lb.	.15 - .16
Pentoxide, dms., c.l., works.	lb.	.11 - .12
l.c.l., dms., works	lb.	.13 - .14
Sesquisulphide, cs.	lb.	.38 - .42
Trichloride, cyls.	lb.	.15 - .16
Phthalamide, bbls., works, tons,	lb.	.35 - —
single bbls., works	lb.	.40 - —
kgs., works	lb.	.45 - .50
Phthalic anhydride, bbls., c.l., works, frt. alld., E. of Miss R.	lb.	.14½- —
l.c.l., same basis	lb.	.15½- —
Pichi leaves, bgs.	lb.	.15 - .16
Pilocarpine hydrochloride, bots.,	vls..oz.	4.00 - 4.25
Nitrate, bots., vls.	oz.	3.90 - 4.15
Pimento, bgs.	lb.	.16¼- .16¾
Pinkroot, bls.	lb.	.40 - .41
Pitch, Burgundy (see B).		
Coaltar, 160° m.p., bbls., c.l., works.	ton.	19.00 - —
l.c.l.	ton.	22.00 - —
Hardwood, 1-time, dms., c.l., dlvd. Akron.	ton.	23.75 -24.00
Linseed, dms.	lb.	.05 - .05¼
Petroleum (see Asphaltum, Mexican, Texas).		
Pine, bbls.	bbl.	6.00 - 6.50
Plaster of Paris (see Gypsum).		
Pleurisy root, Southern, bls.	lb.	.12 - .13
Podophyllin, dms., dlvd., E. of Miss.	lb.	4.50 - 4.70
Poke root, bls.	lb.	.07 - .07½
Pomegranate bark, bgs.	lb.	.52 - .53
Root bark, bgs.	lb.	.47 - .48
Poppy flowers, red, bls.	lb.	1.00 - 1.15
Seed, Dutch, bgs.	lb.	.13½- .14
Hungarian, bgs.	lb.	.14 .14½
Potash abietate	lb.	.08 - —
Acetate, tech., bbls., dlvd.	lb.	.26 - —
kgs., dlvd.	lb.	.28 - —
USP, bbls., 250 lbs.	lb.	.28 - —
kgs., 100 lbs.	lb.	.30 - —
cns., 25 lbs.	lb.	.33 - —
Arsenite, USP, solut., cbys., 100 lbs.	lb.	.11 - —
demj., 50 lbs.	lb.	.12 - —
Bicarbonate, USP, cryst., bbls., 300 lbs.	lb.	.15 - —
kgs., 100 lbs.	lb.	.17 - —
gran., bbls., 250 lbs.	lb.	.15 - —
kgs., 100 lbs.	lb.	.17 - —
Bichromate, spot, c.l., works,	lb.	.06⅞- —
6 casks or 10 bbls., or over, works.	lb.	.09 - —
5 casks or 9 bbls., or less, works.	lb.	.09¼- —
Bromide, USP, gran., bbls., 500 lbs.	lb.	.31 - —
fib., dms., 100 lbs.	lb.	.32 - —
Carbonate, calc., dms., c.l., works.	lb.	.06½- —
l.c.l., same basis	lb.	.06¾- —
hydrated, 83-85%, bbls., c.l., works.	lb.	.05½- —
l.c.l., same basis	lb.	.05¾- —
liquid, dms., c.l., works, frt. alld.	lb.	.03 - —
l.c.l., dms., same basis.	lb.	.03125- —
tanks, same basis.	lb.	.0275- —
USP, gran., bbls., 325 lbs.	lb.	.13½- —
powd., bbls., 325 lbs.	lb.	.19 - —
kgs., 100 lbs.	lb.	.21 - —
Caustic, flake, 88-92%, dom., c.l., works.	lb.	.07 - —
l.c.l.	lb.	.07¼- .07½
import, dms.	lb.	No prices
liquid, 45% basis, dms.	lb.	.03½- .03¾
tanks	lb.	.02⅞- —
solid, 88-92%, dom., dms., c.l., works.	lb.	.06¼- —
l.c.l.	lb.	.06½- .06¾
import, dms.	lb.	No prices
Chlorate, cryst., kgs.	lb.	.10½- .13
gran., kgs.	lb.	.12 - .14½
powd., kgs.	lb.	.10 - .12½
Chloride, tech., 98%, cryst., bgs., kgs.	lb.	.04 Nom.
Chromate, kgs.	lb.	.24 - .27
Citrate, USP, gran., bbls., 250 lbs.	lb.	.33½- —
kgs., 100 lbs.	lb.	.34½- —
cns., 50 lbs.	lb.	.35½- —
cns., 25 lbs.	lb.	.37½- —
Cyanide, cns., dms.	lb.	No prices
Cyanide, gold, 11% gold, bots., works.	oz.	14.20 -14.45
Glycerophosphate, 75% sol., dms., 1,000-lb lots.	lb.	1.00 - —
100-lb. lots.	lb.	1.10 - —
50-lb. lots, cbys, or cns.	lb.	1.15 - —
25-lb. lots, cns.	lb.	1.25 - —
Guaiacolsulphonate, fib., dms., 100-lb. lots.	lb.	1.60 - 1.65
cns., 25 lbs.	lb.	1.75 - —
Hydroxide, USP, sticks, cns... 100 lbs.		.30½- .32
Hypophosphite, cns., 100 lbs.	lb.	.72 - —
25 to 50 lbs.	lb.	.75 - —
Iodate, bots., 5 lbs.	lb.	3.31 - 3.35
cns., 25 lbs.	lb.	3.20 - —
Iodide, bbls., 250 lbs.	lb.	1.35 - —
bots., or cns.	lb.	1.44 - 1.70
dms.	lb.	1.35 - 1.38
Kainit, 20%, K_2O, bulk, ex-vessel, Atlantic or Gulf ports.	ton.	12.25 - —
Manure salt, dom., run of mine, approx. 30%, K_2O, bulk, c.i.f. ports.	unit-ton.	.58½- —
import, 30%, K_2O, bulk, ex-vessel, Atlantic or Gulf ports.	ton.	17.55 - —
Metabisulphite, kgs.	lb.	.18 - .20

Potash, muriate, dom., all strengths, min., 50% K_2O, bulk..unit-ton. .53½- —
Import, all strengths, min. 80% KCl, basis 50% K_2O, bulk, ex-vessel, Atlantic or Gulf ports.....ton.26.75 - —
basis 60% K_2O, bulk, ex-vessel, Atlantic or Gulf ports, ton.32.10 - —
Potash muriate prices in bags are $2 per ton higher than bulk price.
Oxalate, pure, cryst., kgs....lb. .30 - .31
tech., bbls.....lb. .25 - .26
Nitrate, crude, bgs., c.i.f. ports, ton.55.00 Nom.
Perchlorate, kgs., works.....lb. .09¼- .11
Permanganate, tech., dms...lb. .18½- .19
Prussiate, red, bbls.....lb. .38 - .45
Yellow, bbls.....lb. .15 - .16
Ricinoleate, tech., bbls.....lb. .13 - —
Silicate alkaline, lump, bgs..lb. .07 - —
Sulphate, NF, cryst., bbls., 400 lbs..lb. .18 Nom.
kgs., 100 lbs.....lb. .20 - —
powd., bbls., 350 lbs.....lb. .19 Nom.
kgs., 100 lbs.....lb. .21 - —
tech., 90-95%, min. 90%, bgs., ex-vessel, Atlantic or Gulf ports..ton.36.25 - —
Xanthate, dms., c.l.....lb. .13 - —
l.c.l.....lb. .13½- —
Potash-magnesia sulphate, 48-53%, min. 48%, bgs., shipt., ton.24.75 - —
Potash titanium oxalate, 350-lb. bbls..lb. .40 - —
100-lb. dms.....lb. .45 - —
Prickly ash bark, bls.....lb. .15 - .16
Berries, bgs.....lb. .30 - .35
Prince's pine herb, bls.....lb. .25 - .26
Propane, tanks, Group 3.....gal. .03¾- .04
Psyllium seed (see Fleaseed).
Pulsatilla, bls.....lb. .30 - .32
Pumice stone, Italian, Amer.-grd., 4F, 3F, 2F, 1½F, and coarser, bbls., 3 or over, works..lb. .03½- —
less than 3, works....lb. .04½- —
F and 1, bbls., 3 or over, works..lb. .04 - —
less than 3, works....lb. .04½- —
O, O-½, O-¾, and ½, bbls., 3 or over, works.....lb. .04½- —
less than 3, works....lb. .04½- —
Ital.-grd., bgs., c.l., shipt. ex dock, N. Y..ton.39.00 Nom.
l.c.l., 5-29 tons, ex whse., ton.44.00 Nom.
1,000-10,000 lbs., ex whse..ton.46.00 Nom.
2 bgs., to 1,000 lbs., ex whse, ton.48.00 Nom.
single bgs., ex whse.ton.60.00 Nom.
Pumpkin seed, bgs.....lb. .10 - .11
Purple lake (see Red).
Putty, com'l, dms.....100 lbs. 6.00 - —
linseed oil, raw, dms....100 lbs. 4.50 - —
refined, dms. .....100 lbs. 5.00 - —
standard, dms. .....100 lbs. 3.95 - —
Pyrethrum concentrate, liq. (20 to 1), basis 2.4% pyrethrin (Seil test) 55-gal. dms. (incl.) frt. alld., or dlvd., on 15 gls., or more, standard brand, odorless..gal. 7.15 - 7.50
(30 to 1) 3.6% pyrethrin, 55-gal. dms. (incl.) frt. alld., or dlvd., on 15 gals., or more, standard brand, odorless..gal.10.65 -11.00
Pyrethrum flowers, coarse, grnd. (g.d.p.) Japan, bgs., frt. alld., 15 tons or over..lb. .33 - .36
fine powd. Japan, bbls., ton lots frt. alld..lb. .35 - .37
Pyridin, denaturing, dms....gal. 1.71 - —
refd., 2°, dms.....lb. .51 - —
Pyrites, Spanish, bulk, c.i.f. Atl. ports..unit-ton. .12-.13 Nom.
Pyrocatechin, CP, cryst., works, fib., dms., tins..lb. 2.15 - 2.40
resublimed, fib. dms., tins..lb. 4.60 - —
Pyrophylite, standard, 200 mesh., c.l., mines..ton. 9.00 - —
325 mesh, same basis....ton.12.00 - —
No. 3, 200 mesh, c.l. mines.ton. 7.50 - —
325 mesh, same basis....ton.10.50 - —
Pyroxylin scrap, amber, cs., works..lb. .12 - —
black, cs., works.....lb. .10 - —
China white, ivory, cs., works, lb. .13 - —
dense white, cs., works..lb. .10 - —
gray, cs., works.....lb. .08 - —
mixed, mottles, opaque, cs., works..lb. .04 - —
shell-demi, cs., works....lb. .12 - —
translucent pastels, cs., works..lb. .10 - —
transparent, cs., works...lb. .20 - —
colors, cs., works.....lb. .12 - —
shavings, amber, cs., works..lb. .16 - —
colors, mixed, cs., works..lb. .10 - —
white, cs., works.....lb. .15 - —

Q

Quassia chips, bls.....lb. .05 - .06
Quebracho extract, liquid, 35% tan, bbls., works..lb. .04 - —
tanks, works.....lb. .03½- —
solid, 63%, bgs., c.l., ex dock, plus duty..lb. .04½- —
clarified, 64%, bgs., c.l., same basis..lb. .04¾- —
Queen of the meadow leaves, bgs..lb. .07 - .08
Root, bgs.....lb. .10 - .11
Quercitron, extract, liquid, 51°, bbls..lb. .08½- .09½
solid, dms.....lb. .11 - .16½
Quicksilver, dom., flasks (76 lbs. net, dlvd. N. Y..flasks.180.00 -185.00
European, flasks (76 lbs. net), port of origin, in bond..flask.200.00 - —
ex store.....flask.207.00 - —
Quince seed, bgs.....lb. 1.10 - 1.15
Quinidine, cryst., small, cns..oz. 1.01 - —
large, cns.....oz. 1.03 - —
powd., precip., cns.....oz. .96 - —
Sulphate, cns.....oz. .69 - —
Subject to surcharge of 4c. per oz.; see note under Quinine.
Quinine, 100 ozs., cns.....oz. .80 - —
Acetate, cns.....oz. 1.02 - —
Arsenate, cns.....oz. .95 - —
Arsenite, cns.....oz. 1.04 - —
Bisulphate, cns.....oz. .58 - —
Citrate, cns.....oz. .75 - —
Dihydrobromide, bots.....oz. .78 - —
Dihydrochloride, bots.....oz. .79 - —
Ethylcarbonate, cns.....oz. .80 - —
Ferrocyanide, cns.....oz. 1.04 - —
Formate, cns.....oz. .97 - —
Glycerophosphate, cns.....oz. 1.17 - —
Hydrochloride, cns.....oz. .72 - —
Hydrochlorosulphate, cns....oz. .79 - —
Hydroiodide, cns.....oz. 1.02 - —
Hypophosphite, cns.....oz. 1.03 - —
Phosphate, cns.....oz. .86 - —
Salicylate, cns.....oz. .76 - —
Quinine sulphate, USP, X, cns..oz. .57 - —
USP, XI, cns.....oz. .64 - —
Sulphocarbolate, cns.....oz. 1.03 - —
Tannate, cns.....oz. .60 - —
Tartrate, cns.....oz. 1.00 - —
Valerate, cns.....oz. .96 - —

Quinine buyers must pay a surcharge of 4c. per oz. to cover present war risk insurance, ocean freight rates, and additional expenses over the cost of usual business. Changes in these controlling factors will be reflected in the surcharge invoiced.

Quinine-urea hydrochloride, cns.oz. .78 - —

Subject to surcharge of 4c. per oz.; see note under Quinine.

R

R, salt, dry, bbls.....lb. .55 - —
paste, dms.....lb. .52 - —
Rapeseed, Belgian, bgs.....lb. .07½- .08
Dutch, black, bgs.....lb. .08 - .08½
red, bgs.....lb. .12 - .12½
Japanese, bgs.....lb. .06¾- .07
Raspberries, dried, bls.....lb. .65 - .70
Red, alizarin lake, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis..lb. 1.10 - 1.90

Red, Alizarin lake prices are ½c. higher dlvd. Ala., Fla., Ga., Ia. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex. (Dallas, Ft. Worth, 1½c.; El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph: ½c. higher dlvd. Pac. Coast for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.

Red, cadmium, lithopone, deep shade, bbls., ton lots, works, frt. alld..lb. .90 - —
smaller lots, same basis. lb. .95 - —
kgs., ton lots, same basis. lb. .95 - —
smaller lots, same basis. lb. 1.00 - —
light shade, bbls., ton lots, same basis..lb. .75 - —
smaller lots, same basis. lb. .80 - —
kgs., ton lots, same basis. lb. .80 - —
smaller lots, same basis. lb. .85 - —
light-medium shade, bbls., ton lots, same basis.lb. .80 - —
smaller lots, same basis. lb. .85 - —
kgs., ton lots, same basis. lb. .85 - —
smaller lots, same basis. lb. .90 - —
maroon shades, bbls., ton lots, same basis..lb. 1.00 - —
smaller lots, same basis. lb. 1.05 - —
maroon shades, kgs., ton lots, same basis..lb. 1.05 - —
smaller lots, same basis. lb. 1.10 - —
medium shade, bbls., ton lots, same basis..lb. .85 - —
smaller lots, same basis. lb. .90 - —
kgs., ton lots, same basis. lb. .90 - —
smaller lots, same basis. lb. .95 - —

Red, selenide, bbls., dark, works, lb. 2.50 - —
light, works.....lb. 2.25 - —
orange, bbls., 100-lb lots, works..lb. 1.50 - —
Carmine, 40 1-lb. cns., 500 lbs. lb. 5.00 - —
dms., 500-lb. lots.....lb. 4.85 - —
100-lb. lots.....lb. 4.95 - —
Crocus martis (see Red, purple oxide).
Eosin toner, bbls.....lb. 1.25 - —
Indian, pure, bbls., f.o.b. Bethlehem, Easton, E. St. Louis, N. Y.. .08¾- —
80%-85%, bbls., same basis.lb. .07¼- —
Iron oxide (see Red oxide).
Lake C toner, bbls., same basis alizarin lake, contracts.lb. 1.10 - —
open order.....lb. 1.15 - —
Lithol toner, bbls., same basis, alizarin, lake, contrs...lb. .55 - —
open order.....lb. .60 - —
Rose lake, bbls.....lb. .20 - .23
Pink, bbls.....lb. .15 - .20
Lithol-rubine toner, bbls., same basis alizarin lake..lb. 1.35 - —
Maroon lake, 25%, kgs., same basis alizarin lake contracts. lb. .40 - —
Oxide (see Red, purple oxide).
Mercury oxide, tech., dom., bbls. lb. 2.41 - —
Metallic, bbls., Pa., works...lb. .02 - —
Orange, Persian (see O).

Raised in Good Soil

Good working materials are the good soil with which industry produces high quality products. Niagara helps many manufacturers keep their products in the ribbon-winning class by providing them with a top quality, consistently uniform supply of Caustic Soda, Caustic Potash and Carbonate of Potash. Let your product be raised in the "good soil" of Niagara materials.

Niagara ALKALI COMPANY
60 EAST 42nd STREET, NEW YORK, N. Y.
Affiliated with Electro Bleaching Gas Company, Pioneer Manufacturer of Liquid Chlorine

CAUSTIC SODA
CARBONATE OF POTASH
CAUSTIC POTASH

Red, Oxide—Soda Arsenite

Red, oxide, pure, bbls., c.l., works..lb. .08½- —
l.c.l., works.....lb. .09¾- —
shell, dom., cs., works.....lb. .12 - —
reduced, 85% copperas oxide, bbls., l.c.l., f.o.b. Bethlehem, Easton, E. St. Louis, New Castle, N. Y.....lb. .08¼- —
80% copperas oxide, bbls., same basis..lb. .07¾- —

Para, toner, concent., kegs., same basis alizarin lake, contracts..lb. .70 - —
open order.....lb. .75 - —

Persian, Gulf, oxide, bbls., l.c.l., f.o.b. Bethlehem, Easton, N.Y.lb. .04¾- —
ex whse., Chicago, St. Louis..lb. .05¼- —
San Fran., Los Ang., Portland, Seattle..lb. .05¾- —

Phloxin toner (see Red, Eosin toner)

Phosphotungstic rhodamine Y, kgs..lb. 3.90 - —
Purple lake, kgs.....lb. .60 - 1.00
Oxide, bbls., f.o.b. Bethlehem, Easton, E. St. Louis..lb. .03 - —
Toner, kgs.....lb. 1.50 - 2.00
Scarlet ink toner, kgs., same basis alizarin lake..lb. .50 - —
Lake, kgs., same basis alizarin lake..lb. .25 - .30
Spanish, oxide, bbls., f.o.b. N.Y. lb. .03¾- —
Toluidine toner, kgs., same basis alizarin lake..lb. 1.20 - —
Tuscan, bbls., f.o.b. N. Y., E. St. Louis..lb. .11 - .40
Venetian, bbls., works.....lb. .0220- —
10%, bbls., works.....lb. .0245- —
15%, bbls., works.....lb. .0265- —
20%, bbls., works.....lb. .02¾- —
25%, bbls., works.....lb. .03 - —
30%, bbls., works.....lb. .03¼- —
35%, bbls., works.....lb. .0360- —
40%, bbls., works.....lb. .04 - —
Vermilion, Amer., bbls., same basis alizarin lake..lb. .15 - —
quicksilver, bbls., 5 tons..lb. No prices
smaller lots.....lb. 2.46 - 2.55

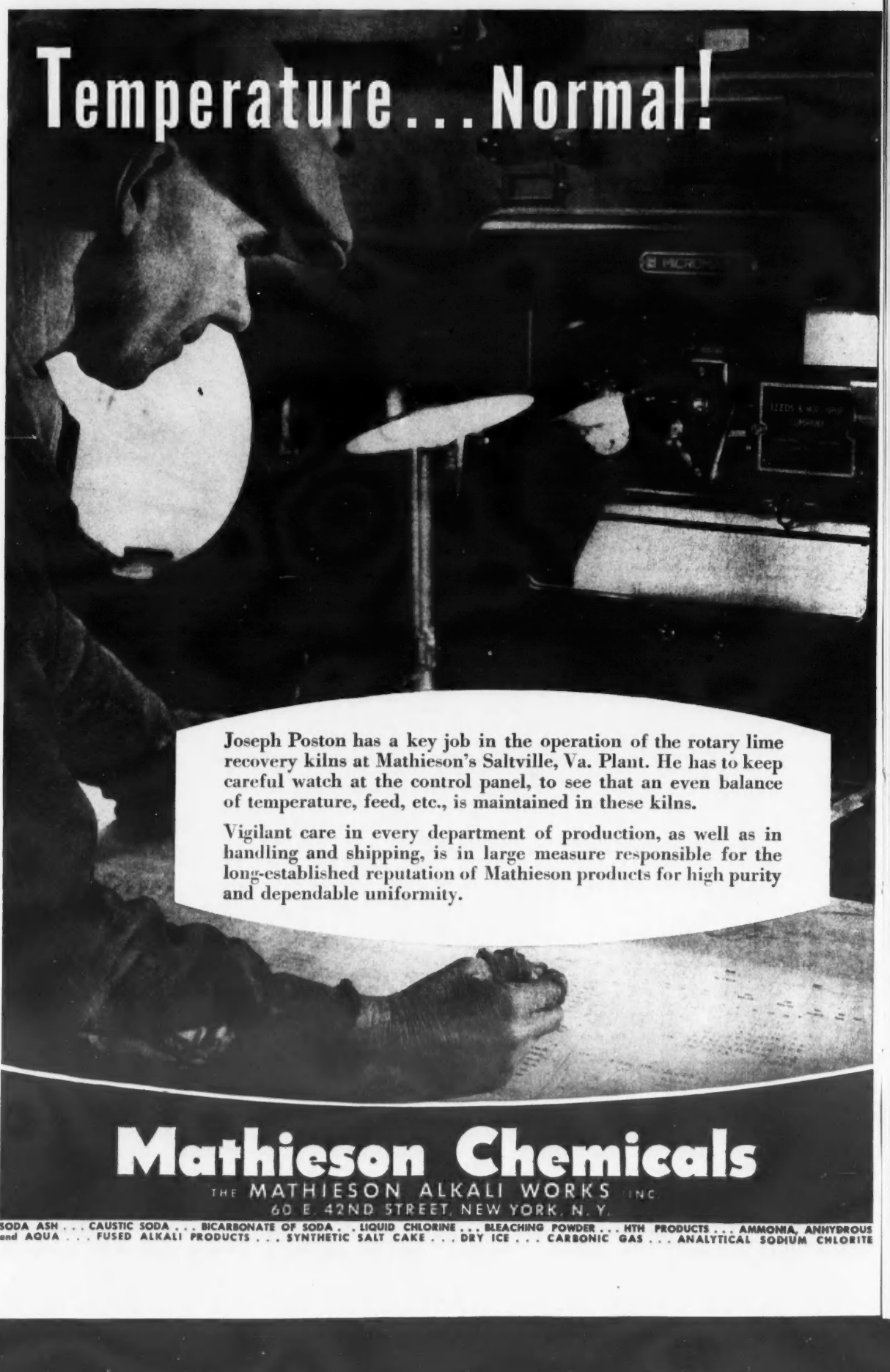
Red dyes are listed under Dyes.

Red precipiate, N. F., powd., fib. dms., 50 lbs. or more...lb. 2.66 - —
Red saunders wood, ground, bbls. lb. .12 - .17
Resorcinol, tech., dms., works.lb. .75 - .90
USP, cryst., bbls., works.....lb. 1.50 - 1.55
Rhatany root, bgs.....lb. .12 - .14
Rhodinol, bots.....lb. 5.55 -10.90
Rhubarb, bots.....lb. .55 - .60
powd., bbls., kgs.....lb. .60 - .65
Rochelle salt, cryst., bbls., 5,000 lbs., 1 ship't..lb. .22¾- —
smaller lots.....lb. .23¼- —
powd., bbls., 5,000 lbs., 1 ship't..lb. .21¾- —
smaller lots.....lb. .22¼- —
Rose flowers, pale, bls.....lb. .55 - .60
red, bls.....lb. 3.50 - 3.55
Rosemary, flowers, bls.....lb. .45 - .50
leaves, bls.....lb. .07 - .08
Rosin, gum, bbls., ex dock, 280 lbs. 5.75 - —
D, bbls.....280 lbs. 6.00 - —
E, bbls.....280 lbs. 6.35 - —
F, bbls.....280 lbs. 6.45 - —
G, bbls.....280 lbs. 6.60 - —
H, bbls.....280 lbs. 6.65 - —
I, bbls.....280 lbs. 6.75 - —
K, bbls.....280 lbs. 6.75 - —
M, bbls.....280 lbs. 6.80 - —
N, bbls.....280 lbs. 6.80 - —
W. G., bbls.....280 lbs. 6.90 - —
W. W., bbls.....280 lbs. 7.45 - —
X, bbls.....280 lbs. 7.45 - —
Rosin, wood, bbls.....280 lbs. 4.00 - 6.25
Rottenstone, dom., bgs., c.l., f.o.b. mines..ton.25.50 Nom.
l.c.l., f.o.b. mines.....ton.37.50 Nom.
import, lump, bbls.....lb. .14 Nom.
powd., bbls.....lb. .08¼- .10
Rue, bls.....lb. .30 - .35

S

Sabadilla seed, powd., bbls....lb. .22 - .33
Saccharin, dms., 100 lbs.....lb. 1.45 - —
cns., 25 lbs.....lb. 1.48 - 1.50
Safflower, bls.....lb. .35 - .40
Saffron, Mexican, bls.....lb. .40 - .42
Spanish, tins.....lb.35.00 -36.00
Sage, Dalmatian, stemless....lb. .09¼- .09¾
garden, bls.....lb. .10¼- .10¾
Safrol, cns.....lb. .72 - .77
dms.....lb. .70 - .75
Sago flour, bgs.....lb. .04 Nom.
Salicin, bots., 5 lbs.....lb. 7.04 - —
cns., 25 lbs.....lb. 7.00 - —
Salol, gran., bbls., 200 lbs.....lb. .90 - —
bxs., 25 lbs.....lb. .95 - —
kgs., 100 lbs.....lb. .90 - —
powd., fib. dms., 25 lbs.....lb. 1.03 - —
kgs., 100 lbs.....lb. 1.00 - —
Salt, rock, bgs., dlvd., N. Y..ton.13.20 -13.80
l.c.l., bgs., dlvd., N. Y..ton.15.00 -15.60
vacuum, common, fine, bgs., c.l., dlvd., N. Y.ton.15.30 - —
l.c.l., dlvd., N. Y.....ton.16.60 -19.70
Saltcake, grd., dom., bbls., works. ton.24.00 Nom.
bulk, works.....ton.17.00 Nom.
import, bulk, c.i.f.....ton.20.00 Nom.
Chrome (see Chrome cake).
Saltpeter, dbl., refined, cryst., 10-20 tons, bbls..100 lbs. 8.10 - 9.10
1-9 tons.....100 lbs. 8.25 - 9.25
less than ton lots..100 lbs. 8.50 - 9.50
gran., bbls., 10-20 tons, 100 lbs. 7.10 - —
1-9 tons.....100 lbs. 7.25 - —
less than ton lots..100 lbs. 7.50 - —
powd., bbls., 10-20 tons.100 lbs. 8.10 - —
1-9 tons.....100 lbs. 8.25 - —
less than ton lots..100 lbs. 8.50 - —
Santonin, cryst., cns.....kilo.130.00 -132.00
Saponin, crude, cns.....lb. 1.45 - —
purified, bots., 5 lbs.....lb. 1.65 - —
cns., 25 lbs.....lb. 1.50 - —
Sarsaparilla root, Honduras, bls.lb. .40 - .41
Mexico, bls.....lb. .17 - .18
Sassafras, bark, ord., bls.....lb. .13 - .14
select, bls.....lb. .20 - .21
Savory, bbls.....lb. .15 - .16
Saw palmetto berries, bgs.....lb. .08 - .09
Scammony root, bgs.....lb. .07 - .09
resin., lump, cns.....lb. .85 - —
powd., bxs.....lb. .90 - —
Schaeffer's salt, bgs.....lb. .46 - —
Seidlitz mixture, bbls., 5,000 lbs., 1 shipm't..lb. .17¾- —
smaller lots.....lb. .18½- —
kegs, 5,000 lbs., 1 shipm't..lb. .18½- —
smaller lots.....lb. .18¾- —
Selenium, pwd., A, 10-lb. tins..lb. 2.00 - —
100-lb. cases.....lb. 1.75 - —
Senega root, bls.....lb. .82 - .88
Senna leaves, Alexandria, half leaf, bls.....lb. .15 - .16
siftings, bgs.....lb. .14 - .15
Tinnevelly, No. 1, bls.....lb. .12 - .13
2 bls.....lb. .10 - .11
3 bls.....lb. .08½- .09
powd., bbls., bxs.....lb. .12 - .13
Pods, bls.....lb. .09 - .10
Serpentaria root, bls.....lb. .78 - .80
Shellac, bleached, bonedry, bbls., f.o.b., N. Y..lb. .25 - .26
dlvd. Boston.....lb. .25½- .26½
Chicago.....lb. .25¾- .26¾
Pacific Coast.....lb. .28 - .29
refd., bbls., f.o.b., N.Y....lb. .31 - .32
dlvd. Boston.....lb. .31½- .32½
Chicago.....lb. .31¾- .32¾
Pacific Coast.....lb. .34 - .35
Garnet, bgs.....lb. .19 - .20
Orange, D.C., VSO., Diamond I, cases..lb. .30 - .31
Superfine, bgs., f.o.b. Bost., N.Y..lb. .18 - .19
dlvd., Chicago.....lb. .18½- .19½
Pacific Coast.....lb. .21 - .22
T.N., bgs., f.o.b. Bost., N. Y., lb. .17 - .18
dlvd., Chicago.....lb. .17½- .18½
Pacific Coast.....lb. .20 - .21
Varnish, Metro., area, orange, 5-lb. cut., bbls..gal. 1.05 - 1.10
4½-lb. cut, bbls.....gal. 1.00 - 1.05
4-lb. cut, bbls.....gal. .95 - 1.00
white, 5-lb. cut, bbls.....gal. 1.15 - 1.20
4½-lb. cut, bbls.....gal. 1.10 - 1.15
4-lb. cut, bbls.....lb. 1.05 - 1.10
Silica, amorph., dry-grd., 95-97%, 325 mesh, bgs. c.l., works.ton.17.00 - —
l.c.l., 2½ tons, works.ton.19.00 - —
smaller lots, works..ton.20.00 - —
Silica, wet-grd., 95-97%, 325 mesh, bgs., c.l., works..ton.19.00 - —
l.c.l., 2½ tons, works.ton.21.00 - —
smaller lots, works.ton.25.00 - —
400 mesh, bgs., c.l., works, ton.35.00 - —
l.c.l., 2½ tons, works.ton.36.50 - —
smaller lots, works.ton.38.00 - —
96-98%, 325 mesh, bgs., c.l., works..ton.20.00 - —
96-98%, 325 mesh, bgs., l.c.l., 2½ tons, works..ton.21.50 - —
smaller lots, works.ton.23.00 - —
90%, 325 mesh bgs., c.l., works..ton.22.00 - —
bgs., l.c.l., 2½ tons, works, ton.25.50 - —
smaller lots.....ton.27.00 - —
hard-quartz, 140 mesh, bgs., c.l., works.....ton.11.00 - —
l.c.l., works.....ton.16.00 - —
Silver, bullion.....oz. .34¾- —
Govt. purchase, dom., metal, oz. .7111- —
Govt. purchase, foreign metal, oz. .35 - —
cyanide, cns., 2,500 ozs.....oz. No prices
1,000 ozs.....oz. No prices
500 ozs.....oz. No prices
80 to 100 ozs.....oz. No prices
Nitrate, vis.....oz. 26%- —
Nucleinate, bots., cns., 480-oz. lots..oz. .30 - .31
Proteinate, bots., cns., 480-oz. lots..oz. .29 - .30
Simarubra bark, bls.....lb. .33 - .45
Skatol, bots.....lb.75.00 -80.00
Skullcap, Eastern, bls.....lb. .23 - .24
Western, bls.....lb. .14 - .15
Skunk cabbage root, bls.....lb. .11 - .12
Blue, cnts.....lb. .07 - .08¼
Slate flour, bgs., c.l., works..ton. 9.00 - —
l.c.l., works.....ton.10.00 -15.00
Sloe berries, bgs.....lb. .12 - .14
Smalt, black, extra velvet, cnts., lb. .05 - .08
Snakeroot, Canada, bls.....lb. .24 - .26
Soapbark, bls.....lb. .23 - .27
crushed, bls., bbls.....lb. .25 - .27
cut, bls., bbls.....lb. .35 Nom.
powd., bbls.....lb. .32 - .33
Soda, acetate, anhyd., dms., dlvd. lb. .08½- .10
flake, gran., powd., 60%, dms., c.l., dlvd..lb. .04 - —
l.c.l., dlvd..lb. .04½- .05
powd., 90%, dms., c.l., dlvd., lb. .06 - —
l.c.l., dlvd.....lb. .06¾- —
Alginate, dms., bbls., works, lb. .71 - .95
Antimoniate, bbls.....lb. .14½- .15
Arsenate, dms., dealers, c.l., works..lb. .08 - —
l.c.l., dms., works.....lb. .08½- —
Arsenite, dry, gray, dms., c.l., dealers, works..lb. .07½- .09½
l.c.l., dms., works.....lb. .08 - .10
white, dms., c.l., dealers, works..lb. .09 - .11
l.c.l., dms., works.....lb. .09½- .11½

Soda arsenite, dry, gray, prices are ¾c. per pound higher in Chicago; 1c. per pound higher in Houston, Tex., and Colorado. White prices are 1c. per pound higher in Tex. and Colo.


Temperature...Normal!
Joseph Poston has a key job in the operation of the rotary lime recovery kilns at Mathieson's Saltville, Va. Plant. He has to keep careful watch at the control panel, to see that an even balance of temperature, feed, etc., is maintained in these kilns.
Vigilant care in every department of production, as well as in handling and shipping, is in large measure responsible for the long-established reputation of Mathieson products for high purity and dependable uniformity.
Mathieson Chemicals
THE MATHIESON ALKALI WORKS INC.
60 E. 42ND STREET, NEW YORK, N. Y.
SODA ASH . . . CAUSTIC SODA . . . BICARBONATE OF SODA . . LIQUID CHLORINE . . . BLEACHING POWDER . . . HTH PRODUCTS . . . AMMONIA, ANHYDROUS and AQUA . . . FUSED ALKALI PRODUCTS . . . SYNTHETIC SALT CAKE . . . DRY ICE . . . CARBONIC GAS . . . ANALYTICAL SODIUM CHLORITE

Soda ash, dense, 58%, bgs., c.l., works..100 lbs. 1.10 - —
l.c.l., Zone 1.....100 lbs. 2.13 - —
2 .....100 lbs. 2.28 - —
3 .....100 lbs. 2.53 - —
4 .....100 lbs. 2.93 - —
bbls., c.l., works...100 lbs. 1.35 - —
l.c.l., Zone 1.....100 lbs. 2.35 - —
2 .....100 lbs. 2.50 - —
3 .....100 lbs. 2.75 - —
4 .....100 lbs. 3.15 - —
bulk, c.l., works....100 lbs. .95 - —
extra light, 58%, bgs., c.l.. 100 lbs. 1.05 - 1.08
l.c.l., Zone 1.....100 lbs. 2.08 - —
2 .....100 lbs. 2.23 - —
3 .....100 lbs. 2.48 - —
4 .....100 lbs. 2.88 - —
bbls., c.l., works...100 lbs. 1.45 - —
l.c.l., Zone 1.....100 lbs. 2.45 - —
2 .....100 lbs. 2.60 - —
3 .....100 lbs. 2.85 - —
4 .....100 lbs. 3.25 - —
bulk, c. l.....100 lbs. .90 - —
light, 58%, bgs., c.l., works. 100 lbs. 1.05 - 1.08
l.c.l., Zone 1.....100 lbs. 2.08 - —
2 .....100 lbs. 2.23 - —
3 .....100 lbs. 2.48 - —
4 .....100 lbs. 2.88 - —
bbls., c.l., works....100 lbs. 1.35 - —
l.c.l., Zone 1.....100 lbs. 2.35 - —
2 .....100 lbs. 2.50 - —
3 .....100 lbs. 2.75 - —
4 .....100 lbs. 3.15 - —
bulk, c.l.....100 lbs. .90 - —

Soda ash l.c.l. prices are per 100 lbs. f.o.b. recognized warehouse points and include delivery in any quantity to customer's sidewalk within recognized local trucking distance of seller's warehouse. The sales zones are:—Zone 1, All Northern U. S. E. of Miss. river and North of the Southern boundaries of Ky. and Va., including also St. Louis, Mo., and Davenport, Ia.; Texas, E. of 100° Meridian and S. of 31° parallel; La., Miss., Ala., South of 31° parallel and Fla., in Me., N.H. and Vt. special local zone prices apply for ship't to various counties. Zone 2, Ark. East of 98° Meridian, Neb., E. of 98° Meridian; Tex., N. of 31° parallel and E. of 100° Meridian (except Wichita Falls), Ala., La., and Miss. N. of 31° parallel; Iowa, (except Davenport), Ga., Minn., Mo. (except St. Louis) N. and S.C., and Tenn. Zone 3, Kansas, Neb., W. of 98° Meridian, Tex., W. of 100° Meridian (including Wichita Falls, but excluding El Paso) N. and S.D., Okla., Ark., W. of 93° Meridian. Zone 4, El Paso, Tex., Ariz., Colo., Idaho, Mont., Nev., N.M., Utah and Wyo.

Benzoate, tech., bbls., 4,000 lbs., or more..lb. .30 - —
1,000 to 3,900 lbs.....lb. .40 - —
900 lbs. or less.....lb. .43 - —
USP, bbls., 4,000 or more..lb. .46 - —
1,000 to 3,900 lbs.....lb. .47 - —
900 lbs. or less.....lb. .50 - —
4,000 lbs. or more.....lb. .47 - .48
1,000 to 3,900 lbs.....lb. .48 - .49
900 lbs. or less.....lb. .51 - .52
Bicarbonate, tech., bbls., c.l., works..100 lbs. 1.70 - —
l.c.l. .....100 lbs. 2.05 - —
bgs., c.l.....100 lbs. 1.55 - 1.60
l.c.l. .....100 lbs. 1.90 - 1.95
USP, gran., bbls., c.l., works, 100 lbs. 2.25 - —
powd., bbls., c.l., works, 100 lbs. 1.85 - —
l.c.l., dlvd. N. Y...100 lbs. 2.51 - —
kgs., c.l.....100 lbs. 2.10 - —
l.c.l., dlvd. N Y..100 lbs. 2.76 - —
Bichromate, spot, c.l., works.lb. .06¾- —
l.c.l., 6 cks. or 10 bbls. or over, works..lb. .07 - —
5 cks, or 9 bbls. or less, works..lb. .07¼- —
Bifluoride, bbls.....lb. .11¼- 12
Bisulphite, powd., bbls., c.l., bbls., works..100 lbs. 3.00 - 3.10
l.c.l., works.....100 lbs. 3.50 - 3.60
solution, 32 deg., bbls., c.l., works..100 lbs. 1.30 - —
l.c.l., bbls., works..100 lbs. 1.55 - —
42 deg., bbls., c.l., works, 100 lbs. 1.35 - —
l.c.l., bbls., works.100 lbs. 1.60 - —
85 degs., bbls., c.l., works, 100 lbs. 1.40 - —
l.c.l., bbls., works.100 lbs. 1.65 - —
solut., 44 deg., bbls., works, 100 lbs. 1.55 - —
l.c.l., bbls., works.100 lbs. 1.80 - —
Bromide, USP, gran., bbls., 500 lbs..lb. .31 - —
fiber drms., 100 lbs.....lb. .32 - —
Cacodylate, bbls., 5 lbs.....lb. 5.81 - —
jars, 25 lbs.....lb. 5.50 - —

Carbonate (see Soda ash, soda monohydrated, soda sal)

Caustic, flake, 76%, powd., ammon. process, bbls., c.l., works..100 lbs. 2.95 - —
drms., c.l., works..100 lbs. 2.70 - —
l.c.l., Zone 1....100 lbs. 3.55 - 4.90
2 .....100 lbs. 3.70 - 5.05
3 .....100 lbs. 3.95 - 5.30
4 .....100 lbs. 4.35 - 5.70
electro process, drms., c.l., works..100 lbs. 2.20 - —
l.c.l. same zone prices as ammonia process.
liquid, 47-49% buyers' tanks, works..100 lbs. 1.92½- —
seller's tanks, works, 100 lbs. 1.95 - —
70%, buyer's tanks, works. 100 lbs. 1.97½- —
seller's tanks, works, 100 lbs. 2.00 - —
solid, 76%, ammon. process, drms., c.l., works. 100 lbs. 2.30 - —
l.c.l., Zone 1....100 lbs. 3.15 - —
2 .....100 lbs. 3.30 - —
3 .....100 lbs. 3.55 - —
electro process, drms., c.l., works..100 lbs. 2.30 - —
l.c.l., same zone prices as ammon. process.

Caustic soda l.c.l. prices are on the same basis as those for soda ash. The sales zones are also the same.

Chlorate, dom., cryst., bgs., c.l., works..lb. .06¾- —
l.c.l., works.....lb. .06¾- —
powd., bgs., c.l., works..lb. .06½- —
l.c.l., works.....lb. .07 - .06½
Chromate, spot, c.l., works.. lb. .08¼- —
l.c.l., 6 cks., 10 bbls. or over, works..lb. .08¾- —
smaller quantities.....lb. .09¾- —
Citrate, USP, VIII, gran., bbls., 225-lb. lots..lb. .18¼- —
cns., 50-lb. lots.....lb. .20¼- —
25-lb. lots.....lb. .22¼- .23¼
kgs., 100-lb. lots.....lb. .19¼- —

Soda citrate, USP XI, gran., bbls., 250-lb. lots..lb. .24 - —
boxes, 50-lb. lots.....lb. .26 - —
cns., 25-lb. lots.....lb. .28 - .29
kgs., 100-lb. lots.....lb. .25 - —
powd., bbls., 250-lb. lots..lb. .24½- —
boxes, 50-lb. lots.....lb. .26½- —
cns., 25-lb. lots.....lb. .29½- —
kgs., 100-lb. lots.....lb. .25½- —
Cyanide, 96-98%, dom., drms..lb. .14 - .15
import, 90%, cs.....lb. No price
Cyanide, gold, 46% gold, bots., works..oz.15.85 -17.10
Diacetate, 33-35% acidity, bbls., dlvd..lb. .09 - —
Fluoride, white, 90%, bbls., c.l., frt. alld..lb. .07 - —
l.c.l., 10 or over, same basis..lb. .07½- —
1-9, same basis.....lb. .08 - —
95%, bbls., c.l., same basis, lb. .07¼- —
l.c.l., 10 or over, same basis..lb. .07¾- —
1-9, same basis.....lb. .08¼- —
Soda fluoride prices at Los Angeles are f.a.s. works.
Glycerophosphate, N.F., cryst., bbls., 1,000-lb. lots..lb. 1.10 - —
smaller lots.....lb. 1.25 - —
cns., 25 lbs.....lb. 1.50 - —
powd., bbls., 1,000-lb. lots.. lb. 1.15 - —
smaller lots.....lb. 1.30 - —
cns., 25 lbs.....lb. 1.55 - —
Hydrosulphite, dms.....lb. .16 - .17
Hydroxide, USP, sticks, cns., 100-lb. lots..lb. .20¼- .22
Hypophosphite, N.F., cns., 100-lb. lots..lb. .67 - —
Hyposulphite, cryst., large, bgs., c.l., wks., frt. equal'd.100 lbs. 2.25 - —
bbls., same basis..100 lbs. 2.45 - —
l.c.l., bgs., wks., frt. equal'd..100 lbs. 2.50 - —
bbls., same basis....100 lbs. 2.70 - —
pea bags, c.l., works..100 lbs. 2.60 - —
bbls., works.....100 lbs. 2.80 - —
drms., works.....100 lbs. 3.10 - —
5,000 lbs. and over, bgs., wks..100 lbs. 2.75 - 3.00
bbls., wks.....100 lbs. 2.95 - 3.20
drms., wks.....100 lbs. 3.25 - 3.60
2,500 to 5,000 lbs., bgs., works..100 lbs. 2.85 - 3.10
bbls., wks.....100 lbs. 3.05 - 3.30
drms., wks.....100 lbs. 3.35 - 3.60
500 to 2,500 lbs., bgs., works. lb. 3.10 - 3.25
bbls., wks.....100 lbs. 3.30 - 3.55
drms., wks.....100 lbs. 3.60 - 3.85
less than 500 lbs., bgs., wks. 100 lbs. 3.70 - 3.95
bbls., wks.....100 lbs. 3.90 - 4.15
drms., wks.....100 lbs. 4.20 - 4.45
Iodate, jars.....lb. 5.02 - 5.07
Iodide, jars.....lb. 2.30 - —
bots. .....lb. 2.41 - 2.47
Mandelate, bots., 5 lbs.....lb. 3.80 - —
fib. drms., 100-lb. lots.....lb. 3.05 - —
smaller lots.....lb. 3.15 - 3.20
Metanilate, kgs.....lb. .41 Nom.
Metasilicate, anhy., drms., c.l., wks., frt. equal'd..100 lbs. 3.75 - —
15 drms. and over dlvd. N.Y. 100 lbs. 4.65 - —
3-14 drms., same basis..100 lbs. 4.80 - —
1-2 drms., same basis...100 lbs. 5.05 - —
gran., bbls., c.l., works.....lb. 2.35 - —
10 bbls. and over, dlvd., N. Y. lb. 3.10 - —
1-9 bbls., dlvd., N. Y.....lb. 3.35 - —
Molybdate, kgs., wks.....lb. .60 - —
less kgs.....lb. .65 - —
Monohydrated, bbls.....100 lbs. 2.60 - —
works .....100 lbs. 2.30 - —
Naphthionate, bbls.....lb. .50 - —
Nitrate, crude, c.l., 100-lb. bgs., dlvd., f.o.b. cars producing point or ports, rail or boat shipment..ton.29.00 - —
200-lb. bgs., same basis.ton.28.30 - —
bulk, same basis.....ton.27.00 - —
rfd., gran., bbls., 10 tons, 100 lbs. 2.50 - —
1-9 tons.....100 lbs. 2.65 - —
smaller lots.....100 lbs. 2.90 - —
powd., bbls., 10 tons.100 lbs. 5.50 - —
1-9 tons.....100 lbs. 5.65 - —

Soda nitrite, 96-98%, dom., bbls., c.l., wks., frt. equalized..lb. .06¾- —
c.l., West Coast, f.o.b. ports..lb. .08 - —
l.c.l. .....lb. .08¼- .11¼
Soda nitrite l.c.l. price range represents delivery at various points.
Orthosilicate, flake, dms., c.l., works..100 lbs. 3.00 - —
Oxalate, neut., bbls.....lb. .09 - —
kgs. .....lb. .10 - .11
Perborate, N.F., bbls., c.l., works..lb. .14¾- —
l.c.l., works.....lb. .15¼- —
Pentachlorphenate, briquets, single, bgs., works..lb. .26 - —
70 lbs., bgs., works.....lb. .19½- —
490 lbs., bgs., works.....lb. .17½- —
powd., 100 lbs., bgs., works, lb. .19 - —
500 lbs., bgs., works.....lb. .17 - —
Phosphate, dibasic, anhyd., bgs., bgs., c.l., works..100 lbs. 5.15 - —
l.c.l., works.....100 lbs. 6.10 - —
bbls., c.l., works...100 lbs. 5.35 - —
l.c.l., works.....100 lbs. 6.30 - —
cryst., tech., bgs., c.l., works..100 lbs. 2.10 - —
l.c.l., works.....100 lbs. 2.50 - —
bbls., c.l., works...100 lbs. 2.30 - —
l.c.l., works.....100 lbs. 2.70 - —
monobasic, anhyd., bgs., c.l., works..100 lbs. 7.25 - —
l.c.l., works.....100 lbs. 8.00 - —
bbls., c.l., works...100 lbs. 7.45 - —
l.c.l., works.....100 lbs. 8.20 - —
tribasic, bgs., c.l., works...lb. 2.25 - —
l.c.l., works.....100 lbs. 2.65 - —
bbls., c.l., works...100 lbs. 2.45 - —
l.c.l., works.....100 lbs. 2.85 - —
kgs., c.l., works...100 lbs. 2.95 - —
l.c.l., works.....100 lbs. 3.35 - —
USP (dibasic), bbls., works, lb. .09 - .11
dried, bbls., dms., works..lb. .11½- .14
Picramate, kgs.....lb. .65 - —
Prussiate, yellow, bbls., 10,000 lbs. or more..lb. .10¼- —
contracts .....lb. .09½- —
smaller lots.....lb. .10¾- —
contracts .....lb. .09¾- —
Pyrophosphate, anhy., bgs., c.l., wks., frt. equal'd..100 lbs. 5.10 - —
l.c.l., same basis..100 lbs. 5.35 - 5.60
bbls., c.l., wks., frt. equalized..100 lbs. 5.30 - —
l.c.l., same basis...100 lbs. 5.55 - 5.80
Ricinoleate, tech., bbls.....lb. .12 - —
Sal, bgs., dlvd., N. Y...100 lbs. 1.20 - —
works .....100 lbs. 1.00 - —
bbls., dlvd., N. Y.....100 lbs. 1.30 - —
works .....100 lbs. 1.10 - —
Salicylate, bxs.....lb. .52 - —
Sesquicarbonate, bgs., c.l. works..100 lbs. 1.50 - —
bbls., c.l., works...100 lbs. 1.70 - —
bbls., l.c.l. Zone 1....100 lbs. 2.70 - —
2 .....100 lbs. 2.85 - —
3 .....100 lbs. 3.10 - —
4 .....100 lbs. 3.50 - —

Soda sesquicarbonate l.c.l. prices are on same basis as those for soda ash and Caustic soda. The sales are also the same.

Sesquisilicate, dms., c.l., works, 100 lbs. 2.90 - —
10 dms. or over, dlvd., N. Y. C..lb. 4.00 - —
1-9 dms.....lb. 4.25 - —
Silicate, 40° turbid, dms., c.l., works..100 lbs. .80 - —
l.c.l., 5 or more, works. 100 lbs. 1.05 - —
1 to 4, works....100 lbs. 1.20 - —
52°, dms., c.l., works..100 lbs. 1.40 - —
l.c.l., 5 or more, works, 100 lbs. 1.65 - —
1-4, works.....100 lbs. 1.80 - —
Silicofluoride, dom., bbls.....lb. No prices
import, bbls.....lb. .05¾- .06¼
Stannate, dms.....lb. No prices
Stearate, lump, powd., bbls., works..lb. .19 - .24
Sulphate, anhyd., bgs., bbls., c.l., works..100 lbs. 1.45 - 1.65
5 tons or over, works, 100 lbs. 1.70 - 1.90
less than 5 tons, works, 100 lbs. 1.95 - 2.15
cryst. (see Glauber's salt).

Soda Ash—Strychnine

Soda sulphide, cryst., bbls., c.l., works..100 lbs. 2.35 - —
l.c.l., 5 tons or over, dlvd., 100 lbs. 2.75 - —
less than 5 tons, dlvd., 100 lbs. 3.00 - —
solid, bbls., c.l., works, 100 lbs. 3.00 - —
l.c.l., 5 tons or over, dlvd., 100 lbs. 3.50 - —
less than 5 tons, dlvd., 100 lbs. 3.75 - —
Sulphite, cryst., bgs., 100 lbs., works..lb. 2.10 - 2.35
bbls. .....100 lbs. 2.30 - 2.55
powd., bbls., c.l.....100 lbs. 5.25 - —
l.c.l., 5 or more....100 lbs. 5.50 - —
1-4 .....100 lbs. 6.00 - —
Sulphocarbolate, cs.....lb. .27 - .28
Sulphocyanide, drms., cns.....lb. .28 - .47
Sulphoricinoleate, bbls.....lb. .12 - —
Thiosulphate (see hyposulphite).
Tungstate, CP, kgs.....lb. No prices
tech., kgs.....lb. No prices
Solvent, naphtha, drms., wks..gal. .32 - —
tanks, E. of Omaha, frt. alld. gal. .27 - —
W. Coast, f.o.b. Minnequa, Colo..gal. .27 - —
High-flash, drms., works, frt. alld..gal. .31 - —
tanks, came basis.....gal. .26 - —
Sorbitol, com'l, solut., drms., c.l., works..lb. .15½- —
l.c.l. .....lb. .16 - —
Soybean protein, bgs., c.l., works, lb. .13¾- —
l.c.l., works.....lb. .14 - —
Sparteine sulphate, cns.....oz. 1.50 - 1.60
Spearmint leaves, bls.....lb. .20 - .22
Spikenard root, bls.....lb. .21 - .22
Spruce extract, reg., bbls., c.l., worksllb. .01⅝- —
tanks, works.....lb. .01¼- —
powd., super, bgs., c.l., works, lb. .04 - —
super, bbls., c.l., works.....lb. .017⅜- —
tanks, works.....lb. .01⅜- —
Squawvine, leaves, bls.....lb. .14 - .15
Squill, red, bls.....lb. .20 - .21
white, bls.....lb. .10 - .11
powd., bbls., bxs.....lb. .15 - .16
St. Ignatius beans, bgs.....lb. .45 - .46
St. John's Bread, edible, bls., lb. .09 - .11
inedible, bls.....lb. .07 - .09
Starch, corn, pearl, bgs., f.o.b. chicago..100 lbs. 2.50 Nom.
dlvd., N. Y.....100 lbs. 2.85 Nom.
powd., bgs., f.o.b. Chicago, 100 lbs. 2.60 Nom.
dlvd., N. Y.....100 lbs. 2.95 Nom.
Potato, dom., bgs.....lb. .06¼- —
import, bgs.....lb. .06¼ Nom.
Rice, bbls.....lb. .07¼ Nom.
Sweetpotato, bgs.....lb. .05½- .06
Wheat, thick, boil, bgs.....lb. .05¼ Nom.
Starch, iodide, bots.....lb. 1.87 - —
Stavesacre, seed, bgs.....lb. .25 - .30
Stearin, oleo, bbls.....lb. .06¼- .06½
Stillingia, root, bls.....lb. .07½- .08
Stoneroot, bls.....lb. .07½- .08
Storax, cs.....lb. .60 - .65
Stramonium leaves, bls.....lb. .18 - .19
Seed, bgs.....lb. .20 - .21
Strontium bromide, fib, drms...lb. .57 - .58
kgs., 150 lbs.....lb. .55 - —
Carbonate, N.F., IV, 250-lb. bbls..lb. .30 - —
25-lb. bxs.....lb. .35 - —
100-lb. kgs.....lb. .32 - —
tech., 99-100%, precip., bbls. lb. .23 - —
Chloride, bbls.....lb. .18 - —
Iodide, bots., 5 lbs.....lb. 3.00 - —
jars, 25 lbs.....lb. 3.06 - —
Nitrate, dom., bbls., c.l., works. lb. .07¾- —
25 bbls. and over.....lb. .08¼- —
1-24 bbls. and over....lb. .08¾- —
Strophanthus seed, Kombe, bgs.lb. 3.40 - 3.50
Styalyl acetate, bots.....lb. 6.75 - 7.00
Strychnine, cryst., cns., 100-oz. lots..oz. .60 - —
Acetate, 25-oz. cns., 100-oz. lots..oz. .79 - —
Arsenate, 25-oz., cns., 100-oz. lots..oz. .82 - —
Arsenite, 25-oz. cns., 100 oz. lots..oz. .79 - —

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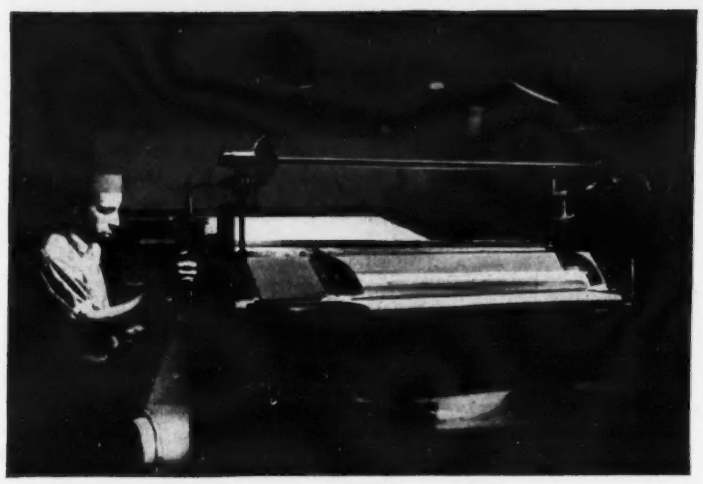
Hydrochloride, 25-oz. cns., 100-oz. lots..oz. .79 - —
Hypophosphite, 25-oz. cns., 100-oz. lots..oz. .91 - —
Nitrate, 25-oz. cns., 100-oz. lots..oz. .73 - —
Phosphate, 25-oz. cns., 100-oz. lots..oz. .80 - —
Sulphate, cryst., cns., 100-oz. lots..oz. .50 - —
powd., cns., 100-oz. lots.oz. .40 - —
Sucrose octa-acetate, denat. grade, bbls., l.c.l., works.lb. .45 - —
tech., bbls., l.c.l., works....lb. .40 - —
Sugar coloring, bbls.....gal. .95 - 1.05
Milk, bbls., c.l.....lb. .16 - —
l.c.l., 10 or over.....lb. .17 - —
less than 10.....lb. .18 - —
Sulfanilamide, 5 lbs., bots.....lb. 1.65 - —
fib., dms., 1,000 lbs., 1 delivery, lb. 1.25 - —
100 lbs.....lb. 1.30 - —
Sulfapyridine, powd., for hospitals, 5-grain bots..bot. 1.25 - —
Sulphonethylmethane, kgs.....lb. 6.75 - 6.80
Sulphonmethane, kgs.....lb. 5.25 - 5.30
Sulphur, crude, bulk, f.o.b. cars, mines, contracts..long ton.16.00 - —
f.o.b. steamers, Gulf ports, contract..long ton.17.50 - —
ex vessels, Atlantic seaboard, contract..long ton.20.50 - —
Puget Sound, Columbia River, and British Columbia ports, bulk, contract.. long ton.22.00 - —
flowers, bgs., c.l., works..... 100 lbs. 3.00 - —
bbls., works.....100 lbs. 3.35 - —
l.c.l., bgs., works..100 lbs. 3.35 - 3.75
bbls., works.....100 lbs. 3.70 - 4.10
refined, broken, bgs., c.l., works, 100 lbs. 2.15 - —
bbls., works.....100 lbs. 2.30 - —
l.c.l., bgs., works....100 lbs. 2.50 - 2.90
bbls., works.....100 lbs. 2.65 - 3.05
flour, comm'l, bgs., c.l., works, 100 lbs. 1.60 - —
bbls., c.l., works..100 lbs. 1.95 - —
l.c.l., bgs., works..100 lbs. 1.95 - 1.98
bbls., works.....100 lbs. 2.30 - 2.70
extra fine, bgs., c.l., works, 100 lbs. 2.85 - —
bbls., works.....100 lbs. 3.20 - —
l.c.l., bgs., works...100 lbs. 3.20 - 3.60
bbls., works.....100 lbs. 3.55 - 3.95
heavy, bgs., c.l., works.100 lbs. 2.55 - —
bbls., works.....100 lbs. 2.90 - —
l.c.l., bgs., works..100 lbs. 2.90 - 3.30
bbls., works.....100 lbs. 3.25 - 3.65
light, bgs., c.l., works..100 lbs. 2.03 - —
bbls., works.....100 lbs. 3.00 - —
l.c.l., bgs., works....100 lbs. 3.00 - 3.40
bbls., works.....100 lbs. 3.35 - 3.75
rock, virgin, bbls., c.l., works, 100 lbs. 2.15 - —
l.c.l., bbls., works..100 lbs. 2.50 - 2.90
roll, bgs., c.l.....100 lbs. 2.35 - —
bbls., works.....100 lbs. 3.50 - —
l.c.l., bgs., works..100 lbs. 2.70 - 3.10
bbls., works.....100 lbs. 2.85 - 3.25
rubber maker's, com'l, 99½%, c.l., frt. alld..100 lbs. 2.00 - —
bbls., same basis, c.l..... 100 lbs. 2.35 - —
refined, 100%, bgs., c.l., frt. alld..100 lbs. 2.35 - —
bbls., same basis.100 lbs. 2.70 - —
Chloride, 55-gal. dms., c.l...lb. .03 - —
l.c.l., dms., works....lb. .04 - —
10-gal. dms., c.l.....lb. .07 - —
l.c.l. .....lb. .08 - —
Dioxide, liq., com'l, cyls., works, lb. .07 - .09
multi-unit, cars, works..lb. .04½- .07
tanks, works.....lb. .04 - .06
refrigeration, cyls., works.lb. .16 - .40
multi-unit cars, works..lb. .07½- .10
Iodide, bots., jars.....lb. 3.90 - 4.05
Precipitated, USP, bbls.....lb. .17 - .22
Sumac, grd., Sicilian, f.a.s..ton.98.00 - —
leaf, bls., f.a.s.....ton.98.00 - —
Extract, 42°, bbls.....lb. .06 - —
51°, bbls.....lb. .07 - —
stainless, bbls.....lb. .07½- .09½
Berries, bgs.....lb. .14 - .15
Sunflower seed, Calif., large, bgs., lb. .07 - .07½
medium, bgs.....lb. .06 - .06½
poultry, bgs.....lb. .0500- .0550
Superphosphate, guaranteed, 16%, bulk, f.o.b. cars, boat, Balto. ton. 9.00 - —
run-of-pile, basis 16%, bulk, same basis..ton. 8.50 - —
triple, 40-48%, a.p.a. bulk, f.o.b. Balto..unit-ton. .70 - —

T

Talc., dom., Calif., 1, bgs., c.l., mills..ton.20.00 - —
2, bgs., c.l., mills.....ton.17.00 - —
N. Y., fibrous, 93-94%, 325 mesh, bgs., c.l., mills, ton.14.00 -16.00
l.c.l., mills.....ton.16.00 -18.00
96-98%, 325 c.l., mills..ton.15.00 -17.00
l.c.l., mills.....ton.17.00 -19.00
98-99½%, 325 mesh, bgs., c.l., mills..ton.15.25 -17.25
l.c.l., mills.....ton.17.25 -19.25
fibrous, 90.85-99.95%, 325 mesh, bgs., c.l., mills..ton.17.00 -19.00
coarse, off color, bgs., c.l., mills..ton.11.00 -13.00
Ohio, flake type, grd., bgs., c.l., mills..ton.21.00 - —
l.c.l., mills.....ton.24.50 - —
Vermont, bgs., c.l., mills, ton.14.00 - —
l.c.l., ex whse.....ton.25.00 - —
Canad., bgs., c.l., mills...ton.11.50 -13.00
French, high-grade, bgs., l.c.l., ex whse..ton.45.00 -60.00
ordinary, bgs., c.l., ex dock, arrival..ton.23.00 -25.00
l.c.l., ex whse.....ton.27.50 -35.00
Italian, 1, bgs., ex dock, arrival, ton.67.00 -70.00
ex whse.....ton.75.00 -78.00
2, bgs., ex dock, arrival.ton.64.00 -67.00
Tallow, animal, edible.....lb. .03¾ Nom.
extra, loose.....lb. .03¾- —
special, loose.....lb. .03¼- —
vegetable, ship, cs.....lb. .06 Nom.
sulphonated, 35% (24% fat), dms., c.l..lb. .03¾ Nom.
l.c.l. .....lb. .04¾ Nom.
50% (43% fat), dms., c.l., lb. .05¼ Nom.
l.c.l. .....lb. .06¼ Nom.
50% (48% fat), dms., c.l..lb. .05¾ Nom.
l.c.l. .....lb. .06¾ Nom.
Tamarind, W. I., bbls.....lb. .07 - .08
kegs .....keg. 6.00 - 8.00

Tankage, animal, dom., grd., 9% ammon., 10% b.p.l., bulk..unit-ton. 3.25 & .10
unground feeding, 9-11% ammon., 15-20% b.p.l., bulk..unit-ton. 3.25 & .10
10-11% ammon., 15% b.p.l., bulk, Chicago..unit-ton. 3.50 & .10
high-grade feeding, bulk, Chicago..unit-ton. 3.75 & .10
import, S. Amer., 10-12% ammon., 15% b.p.l., bulk, c.i.f., ports, Feb. shipt..unit-ton. 3.50 & .10
Tansy leaves, bls.....lb. .22 - .23
Tapioca flour, bgs.....lb. .02¾- .04½
Tar acid oil, 15%, dms., c.l., works..gal. .22 - —
l.c.l., same basis.....gal. .24 - —
25%, dms., c.l., works....gal. .26 - —
l.c.l., same basis.....gal. .28 - —
Tar, pine, retort, dms., c.l., dlvd. E. cities..gal. .27 - —
ports .....gal. .26 - —
l.c.l. .....gal. .27 - —
tanks, dlvd. E. cities....gal. .21 - —
Tarragon herb, bgs.....lb. .60 - .65
Tartar emetic, tech., fine gran., bbls., 5 or more..lb. .34¾ Nom.
less than 5.....lb. .35 Nom.
powd., bbls., 5 or more..lb. .34¾ Nom.
less than 5.....lb. .35 Nom.
USP, powd., bbls.....lb. .40 Nom.
Terebene, cans.....lb. .70 - .75
Terpinyl acetate, cns.....lb. .82 - .85
Terpin hydrate, kgs.....lb. .60 - .65
Terpineol, CP, cns.....lb. .28 - —
dms .....lb. .25 - —
Terpineol, alpha, denat. grade, dms., c.l., wks., net wgt..lb. .17 - —
Terra alba (see Gypsum).
Tetrachloroethane, dms., wks..lb. .08 - .08½
Tetrachloroethylene, CP, dms..lb. .21½- —
tech. (see Perchloroethylene).
Tetralin, dms.....lb. .12 - —
Tetrasodium pyrophosphate (see soda pyrophosphate).
Thallium sulphate, 99% pure, bots., works..lb. 5.00 - 7.00
Theobromine, cns.....lb. 2.10 Nom.
Sodiosalicylate, cns.....lb. 1.85 - —
dms. .....lb. 1.70 - —
5-lb. bots.....lb. 2.01 - —
Thiocarbanilide, dms.....lb. .24 - —
Thorium, nitrate, cs., works..lb. 2.00 - —
Thyme, French, bls.....lb. .19 - .20
Thymol, dms., 100 lbs.....lb. 1.50 - —
cns., 25 lbs.....lb. 1.55 - 1.60
Iodide, kgs., 50 lbs.....lb. 3.25 - 3.30
25 lbs.....lb. 3.35 - 3.40
Timbo, root, powd., 4% rotenone, bbls..lb. .18 - .24
5% rotenone, bbls.....lb. .22 - .30
Tin chloride (ous), anhyd.....lb. .44½ Nom.
Crystals, bbls., kgs.....lb. .36 Nom.
Metal, Straits.....lb. .45½ Nom.
Oxide, bbls.....lb. .51 - .53
Tetrachloride, anhyd., bbls...lb. .23 - —
Titanium, dioxide, bgs., c. l. (20 tons), frt. pd..lb. .13 - —
l.c.l., 5 tons, E. frt. pd. lb. .13¼- —
5 tons, E. frt. pd., Pac. Cst., ex whse..lb. .13¼- —
Titanium, dioxide, bgs., 1,000-9,999 lbs., E. frt. pd.....lb. .13½- —
Pac. Cst., ex whse..lb. .13½- —
50-999 lbs., E. frt. pd. lb. .13¾- —
Pac. Cst., ex whse..lb. .13¾- —
under 50 lbs., E. frt. pd., lb. .16 - —
Pac. Cst., ex whse..lb. .16 - —
bbls., c.l. (20 tons), frt. pd., lb. .13¼- —
l.c.l., 5 tons, E. frt. pd., lb. .13½- —
Pac. Cst., ex whse....lb. .13½- —
1,000-9,999 lbs., E. frt. pd., lb. .13¾- —
Pac. Cst., ex whse....lb. .13¾- —
50-999 lbs., E. frt. pd...lb. .14 - —
Pac. Cst., ex whse....lb. .14 - —
chalk-resistant, bgs., c.l., (20 tons), frt. pd..lb. .15 - —
l.c.l., 5 tons, frt. pd....lb. .15¼- —
1,000-9,999 lbs., frt. pd.lb. .15½- —
50-999 lbs., frt. pd....lb. .15¾- —
Under 50 lbs., frt. pd..lb. .18 - —
bbls., c.l., (20 tons), frt. pd. lb. .15¼- —
l.c.l., 5 tons, E. frt. pd.lb. .15½- —
Pac. Cst., ex whse..lb. .15½- —
1,000-9,999 lbs., E. frt. pd. lb. .15¾- —
Pac. Cst., ex whse..lb. .15¾- —
50-999 lbs., E. frt. pd., lb. .16 - —
Pac. Cst., ex whse..lb. .16 - —
barium or magnesium base, bgs., c.l., D. frt. alld., lb. .05¼- —



(*Above*) **CHANGING CLOTH INTO ARTIFICIAL LEATHER** is routine magic for this coating machine. Nitrocellulose solution, with pigments and oils, is poured on the cloth—spread by doctor blades to the right thickness. Hot air dryers remove volatile solvents after coating. From two to a dozen or more coatings are required for different types of artificial leather. Photo was taken under safety lights, because of explosive atmosphere. Cyanamid is a leading supplier of nitrocellulose, resins, and plasticizers to the artificial leather industry.

(*Below*) **ROPE AND PAPER FROM CASTOR PLANT** are new chemurgic achievements at Sam Houston State Teachers College. Photo shows Professor W. W. Floyd (right) and Melvin Handley with exhibits of castor products. Ropes are made from bast fiber from the bark of the castor stalk. Copy of *The Houstonian*, college newspaper, was printed on paper made in the Sam Houston Laboratory from pulp of the castor stalk.

(*Above*) **MECHANICAL "RAT"** tests vitamin content of drugs and foodstuffs with new accuracy. Developed by Professor Douglas J. Hennessy of Fordham University, it measures fluorescent illumination from vitamins by means of photoelectric cell and meter—is expected to supplant slow biochemical tests on live rats.

(*Below*) **SCALE-MODEL MINE** tests roof-structure safety in process developed by Professor Philip B. Bucky of Columbia. Model spins at 3,000 RPM past cut-away section of centrifuge shell. Synchronized light flashes as model passes opening, to make model seem stationary. Cyanamid is an important factor in the mining industry, through its line of mining chemicals, ore dressing laboratory, and field engineering service covering all mining fields of the world.

Titanium, barium or magnesium base, bgs., l.c.l., dlvd.....lb. .05½- —
Pac. Cst., ex whse..lb. .05½- —
under 50 lbs., E. dlvd..lb. .06¾- —
bbls., c.l., D., frt. alld..lb. .05½- —
l.c.l., E., dlvd.....lb. .05¾- —
Pac. Cst., ex whse..lb. .05¾- —
under 50 lbs., E. dlvd.lb. .06¾- —
calcium base, bgs., c.l., D. frt. alld..lb. .05 - —
l.c.l., dlvd.....lb. .05¼- —
Pac. cst., ex whse.....lb. .05¼- —
under 50 lbs., E., dlvd....lb. .06 - —
bbls., c.l., D., frt. alld.....lb. .05¼- —
l.c.l., E., dlvd.....lb. .05½- —
Pac. cst., ex whse.....lb. .05½- —
under 50 lbs.. E., dlvd....lb. .06¾- —
Telidin base, distilled, kgs....lb. .86 - —
Tolu, balsam, cns.....lb. .90 - .95
Toluidin, mixed, dms.....lb. .26 - —
Toluol (toluene), 2° indus., dms., returnable..gal. .30 - —
tanks, E. of Omaha, frt. alld. gal. .25 - —
tanks, W. Coast, f.o.b. Minnequa, Colo..gal. .25 - —
1° nitration, dms., returnable, gal. .31½- —
tanks, E. of Omaha, frt. alld. gal. .26½- —
tanks, W. Coast, f.o.b. Minnequa, Colo..gal. .26½- —
Tonga vine, F, bls.....lb. .55 - .60
root, bls.....lb. .57 - .62
Tonka beans, Angostura, cks..lb. 2.40 - 2.50
Brazilian, Surinam, cs.....lb. 1.00 - 1.10
Triacetin, dms. .....lb. .26 - —
Triamyl borate, dms., l.c.l., works..lb. .27 - —
Triamylamine, dms., c.l., works. lb. .77 - —
l.c.l., works.....lb. .78 - .80
tanks .....lb. .75 - —
Tributylamine, dms., c.l., works, lb. .67 - —
l.c.l. .....lb. .68 - .70
tanks .....lb. .65 - —
Tributyl citrate, dms., l.c.l., dlvd..lb. .85 - —
Phosphate, dms., l.c.l., dlvd., lb. .42 - —
cns., works.....lb. .46 - .48
Trichlorethylene, dms., c.l., works, frt. alld., Zone 1..lb. .08 - —
l.c.l., same basis.....lb. .08½- —
Zone 2, dms., c.l., works, frt. alld..lb. .08½- —
l.c.l., same basis.....lb. .09 - —
Zone 3, dms., c.l., works, frt. alld..lb. .09 - —
l.c.l., same basis.....lb. .09½- —
Zone 4, dms., c.l., f.o.b. stock points..lb. .09 - —
l.c.l., same basis.....lb. .09½- —

All prices on trichlorethylene are frt. alld. with the exception of Zone 4, in which case the prices indicated are based on f.o.b. L. A., Cal.; S. F., Cal.; Portland, Ore., and Seattle, Wash. Zone 1 includes the following states:—Conn., Md., N. Y., Va., Ky., Me., N. J., Vt., W. Va., Mo., Tenn., Ind., Ia., Pa., R. I., Ill., Mich., Minn., Wis., Del., Mass., N. C., O., Omaha, Neb.; Kansas City, Kansas. Zone 2 includes Ala., Kan., except Kansas City; N. D., Ga., Neb., except Omaha; S. D., Miss., Ark., S. C., La., Okla. and Fla. Zone 3 includes Colo., N. M., Wyo., Texas and Eastern Montana. Zone 4 includes Arizona, Western Montana, Idaho, Ore., Nev. Wash., Utah and Cal.

Tricresyl phosphate, CP, cns., divd..lb. .40½- .51½
dms., c.l., divd.....lb. .34½- —
tech., dms., c.l.....lb. .22 - —
500 lbs., dms.....lb. .22½- —
less than 500 lbs.....lb. .25½- .36½
Triethanolamine, dms., c.l., works, lb. .19 - —
l.c.l., works.....lb. .20 - —
tanks, works.....lb. .18 - —
Triethylamine, dms., l.c.l., works, lb. 1.05 - —
Triethyl phosphate, dms., divd., lb. .45 - —
Triethyleneglycol, dms., l.c.l., works..lb. .26 - —
Trimethyl phosphate, cns.....lb. .54 - .56
dms., divd.....lb. .50 - —
Trimethylamine, dms., c.l., divd., lb. 1.00 - —
l.c.l., divd.....lb. 1.05 - —
Triphenyl phosphate, dms.....lb. .38 - —
Tripoli, air-floated, bgs., c.l., works..ton.26.00 - —
double grd., bgs., c.l., works. ton.16.00 - —
once-grd., bgs., c.l., works.ton.14.50 - —
Trisodium phosphate (see Soda phosphate, tribasic).

Titanium—White Pine Bark

Tungsten metal, powd., 99%, dms., works..lb. No prices
Oxide, CP, kgs.....lb. No prices
Chem. grade, kgs.....lb. No prices
Turmeric root, Alleppey, bgs..lb. .09½ Nom.
powdered, bgs.....lb. .13 - .13½
Madras, bgs.....lb. .11 Nom.
Turpentine, spirits, gum, bbls., c.l., ex dock..gal. .40 - —
l.c.l., 10 ex dock.....gal. .42 - —
5 ex dock.....gal. .44 - —
wood dest., dist., dms., dlvd. E. cities, ports..gal. .29 - .31
tanks, dlvd. E. cities....gal. .25 - —
steam-dist., dms., c.l., dlvd.gal. .35 - —
l.c.l., dlvd.....gal. .38 - —
tanks, dlvd.....gal. .30 - —

U

Unicorn root, false (see Helonias root) True (see Aletris root).
Uranium oxide, black, kgs....lb. 2.65 - —
yellow, kgs.....lb. 1.75 - —
Urea, dom., 46+% N., bgs., 20 tons, f.o.b. Belle, W. Va., Searsport, Me., Norfolk, Wilmington, N. C., Charleston, Savannah, Jacksonville, Tampa, Pensacola, Mobile, Gulfport, New Orleans..ton.95.00 - —
5 tons, f.o.b. Baltimore, Boston, New York, Newark, Philadelphia, Wilmington, Del..ton.95.00 - —
less than 5 tons, f.o.b. Newark, New York, Philadelphia..ton.101.00 - —
any quantity, f.o.b. Belle, W. Va..ton.95.00 - —
import, 46% N., bgs., 5 tons, f.o.b. Atl., Gulf ports or Belle, W. Va., shipt..ton.95.00 - —
46% N., bgs., smaller lots, f.o.b. N. Y. from whse., ton.101.00 - —
pure, cs.....lb. .13 - —
Urea-ammonia liquor, nitrogen basis, tanks, f.o.b. Belle, W. Va., or Atl., Gulf ports, ton.121.58 - —
Urea nitrogen, dom., 42% N_2, bulk, Jan. shipt., f.o.b. Belle, W. Va..ton.57.40 - —
Urea, nitrogen, imported, 40% N_2, bgs., Jan. shipt..ton.56.25 - —
30% N_2, bgs., Jan. shipt., ton.42.55 - —
Uva ursi leaves, bls.....lb. .11 - .12

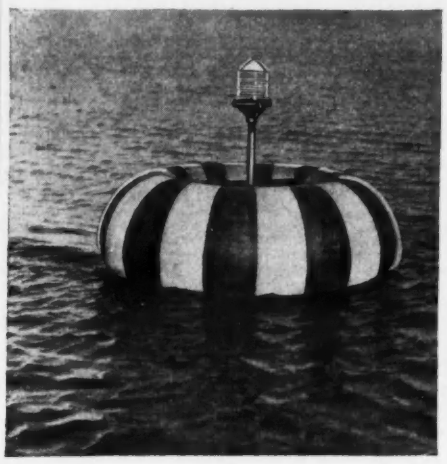
V

Valerian root, bls.....lb. .45 - .50
Valonia, beards, bgs., f.a.s...ton.52.00 - —
Cups, bgs., shipt., f.a.s...ton.37.00 -39.00
extract, powdered, 63%.....lb. .0565 Nom.
Vanilla beans, Bourbon, tins..lb. 5.75 - 6.25
Mexican, tins.....lb. 6.00 - 6.50
cuts, tins.....lb. 5.50 - 6.00
South American, tins.....lb. No prices
oleoresin: bots.....lb.18.00 -19.00
Vanillin, ex eugenol, 25-lb. tins, lb. 2.60 - —
5-lb. tins.....lb. 2.65 - —
1-lb. tins.....lb. 2.75 - —
ex guaiacol, 25-lb. tins.....lb. 2.50 - —
5-lb. tins.....lb. 2.55 - —
1-lb. tins.....lb. 2.65 - —
ex lignin, 25-lb. tins.....lb. 2.50 - —
5-lb. tins.....lb. 2.55 - —
1-lb. tins.....lb. 2.65 - —
Venice turpentine, true, cs.....lb. .70 - .75
Verdigris, bbls., kgs.....lb. .22 - .23
Vinyl acetate, cns., works....lb. .25 - —
dms., c.l., 30,000 lbs. gross, works..lb. .14 - —
l.c.l., works.....lb. .15 - —
5 gals., dms., works.....lb. .25 - —
Violet, methyl, toner (see M).
V.M.P. naphtha (see petroleum naphtha, v.m.p.).

W

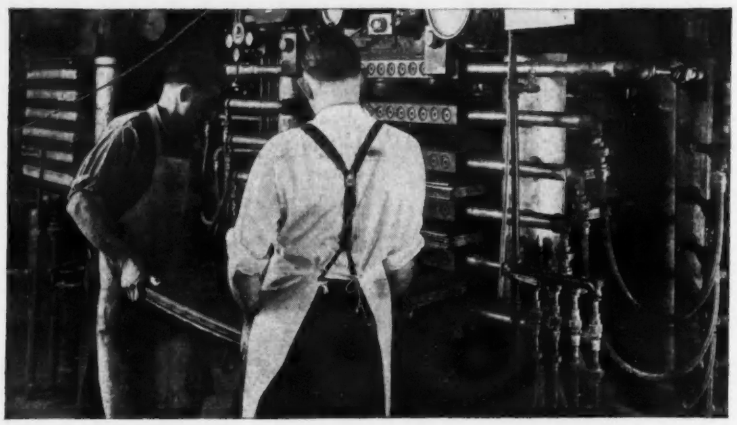
Wahoo bark, bls.....lb. .45 - .46
tree .....lb. .19 - .22
Wattle bark, bgs., f.a.s.....ton.37.50 -38.75
Extract, solid, bgs.....lb. .04¼- —
Wax, bayberry, import, bgs...lb. .25 - .26
Bees, white, bleach, slabs, cs., 5 case lots..lb. .38 - —
1 cs. lots.....lb. .38½- —
cakes, 5 cs., lots.....lb. .39 - —
1 cs., lots.....lb. .39½- —
discs, 5 cns., lots.....lb. .40 - —
1 cs., lots.....lb. .40½- —
yellow, crude, Africa, 10-bg. lots..lb. .27 - .27½
1 bg.....lb. .27½- .28
Brazil, bgs., 5-10 lots....lb. .27 - .27½
1 ton.....lb. .27½- .28
500 lbs.....lb. .28 - .28¼
100 lbs.....lb. .28½- .29
refd., slabs, cs., lbs.....lb. .31 - .36
Candelilla, bgs., 1 ton.....lb. .18 - .18½
jobbing lots.....lb. .18½- .19
Carnauba, No. 3 chalky, bgs., 1 ton..lb. .43 - .44
5 bgs.....lb. .43½- .44½
1 bg.....lb. .44 - .45
N. C., 3, bgs., 1 ton.....lb. .46 - .47
N. C., 3 bgs., 1 ton.....lb. .48 - .49
5 bgs.....lb. .46½- .47½
1 bg.....lb. .47 - .47½
refined, bgs.....lb. .53 - .54
yellow, No. 1, bgs., 1 ton..lb. .69 - .70
5 bgs.....lb. .69½- .70½
1 bg.....lb. .70 - .71
No. 2, bgs.....lb. .68 - .69
Ceresia, dom., 138°, 140° m.p., bgs., 1 ton..lb. .11½- .12
jobbing lots.....lb. .12½- .13
150°-160° m.p., bgs., 1 ton..lb. .13½- .14
jobbing lots.....lb. .14½- .15
160° m.p., bgs., 1-ton.....lb. .13½- .14
jobbing lots.....lb. .14½- .15
Japan, cs.....lb. .16 - .16½
Montan, bgs., c.l.....lb. No prices
5 tons.....lb. No prices
less than 1 ton.....lb. No prices
Ozokerite, hard, green, congeal. p. 66°-68° C., bgs..lb. No prices
70°-72° C., bgs.....lb. No prices
74°-76° C., bgs.....lb. No prices
Snow-white, pure 76°-78° C., bgs..lb. No prices
yellow, natural, 76°-78° C., bgs..lb. No prices
Paraffin (see P.).
Spermaceti, blocks, cs.....lb. .23 - .24
cakes, cs.....lb. .24 - .25
White lead (see Lead, white).
White pine bark, rossed, bls...lb. .07 - .08

CHEMICAL NEWSFRONT



(*Above*) **SEA-GOING LIGHTS** for runway marking may soon usher in an era of regular night flying for seaplanes. Large rubber float is designed to keep light practically stationary even in heavy surfs. Many Cyanamid compounding materials aid in new rubber developments.

(*Above*) **TEST-TUBE FASHIONS** are streaming out of chemical laboratories. This winter the outdoor girl wears a ski suit of lastex and ski cap made from wood shavings. New products of the rubber and textile industries mean new problems for the manufacturers—and Cyanamid anticipates their needs by its constant study of the specialized problems of the industries—and by its comprehensive line of rubber chemicals and textile specialties.



(*Above*) **BEARINGS OF CLOTH AND PLASTICS** rival steel in hardness. Photo shows resin-impregnated cloth being loaded between patens of hydraulic press, for the squeezing that will give a 50-pound bearing the strength to carry million-pound loads in steel mill service. Laminated plastics of a similar type, made with BEETLE* Resins, find many architectural and design uses.

(*Above*) **TELEVISION SCENERY** reproduces landscapes in miniature through the aid of such variegated products as wet sponges, paint, steel wool, sponge rubber, plaster, tobacco. Not a volume market—but an off-the-beaten-track use for the products of many divisions of the chemical industry—and to almost all these divisions Cyanamid supplies many indispensable chemicals.

American Cyanamid & Chemical Corporation
30 ROCKEFELLER PLAZA, NEW YORK, N. Y.
*Registered Trade-mark of American Cyanamid Company.
These resins are manufactured under one or more U. S. Patents.

It's New • and It's Different

GLYPTAL 2475

WHAT IS GLYPTAL 2475?
—a new outstanding development in straight drying oil alkyd type resins

PRICE? — *low*

QUALITY? — *high*

VERSATILE? — *extremely so*

HOW ABOUT WHITES? — *it's great for whites*

DRYING? — *fast*

WHAT ELSE?
— good color retention
— good initial gloss and flow

ESPECIALLY GOOD FOR?

- architectural finishes
- marine finishes
- flat whites
- metal primers
- roll coating finishes
- truck finishes
- pump enamels
- store front finishes
- traffic zone paints
- radiator paints
- trim and trellis coatings

FOR MORE INFORMATION?

Section M-0522, Appliance & Merchandise Department, General Electric Company, Bridgeport, Conn.

GENERAL ELECTRIC

White Prec.—Zinc Oxide

White preciciptate, powd., 5-lb. bots..lb. 2.47 - —
dms., 50 lbs. or more.....lb. 2.34 - —
Whiting, chalk, com'l., dry-grd., bip. bgs., c.l., works..ton.16.00 -20.00
l.c.l., works.....ton.18.00 -22.00
bbls., c.l., work.....ton.19.00 -24.00
l.c.l., works.....ton.21.00 -26.00
pap. bgs., c.l., works....ton.15.00 -18.00
l.c.l., works.....ton.17.00 -20.00
wet.-grnd., bip., bgs., c.l., works..ton.18.50 -22.50
l.c.l., works.....ton.19.00 -23.00
bbls., c.l., works.....ton.21.00 -25.00
gilder's bolted, bip., bgs., c.l., works..ton.18.00 - —
l.c.l., works.....ton.19.00 - —
bbls., c.l., works.....ton.20.00 -21.50
l.c.l., works.....ton.21.00 -22.00
pap. bgs., c.l., works..ton.17.00 -18.50
l.c.l., works.....ton.18.00 -19.00
Paris white, bip., bgs., c.l., works..ton.19.00 - —
l.c.l., works.....ton.20.00 - —
bbls., c.l., works.....ton.22.50 -27.50
l.c.l., works..... .ton.22.00 -28.00
pap. bgs., c.l., works .ton.19.60 -25.10
l.c.l., works..... .ton.20.00 -26.50
Limestone, air floated, 99.75%, 250 mesh, paper bgs., c.l. ton. 9.65 - —
200 mesh, paper bgs., c.l., same basis..ton. 8.60 - —
90%, 200 mesh, paper bgs., c.l., same basis..ton. 6.25 - —
gilders, bgs. (extra), c.l., works..ton.11.50 - —
l.c.l., 8-20 tons, works..ton.12.50 - —
4-8 tons, works.....ton.13.50 - —
2-4 tons, works.....ton.14.50 - —
extra bgs. (extra), c.l., works, ton.12.50 - —
extra, bgs., l.c.l., 8-20 tons, works..ton.13.50 - —
4-8 tons, works.....ton.14.50 - —
2-4 tons, works.....ton.15.50 - —
putty grade, bgs. (extra), c.l., works..ton.11.00 - —
l.c.l., 8-20 tons, works.ton.12.00 - —
4-8 tons, works.....ton.13.00 - —
2-4 tons, works.....ton.14.00 - —
water-floated, bgs., (extra), c.l., works..ton.11.50 - —
l.c.l., 8-20 tons, works.ton.12.50 - —
4-8 tons, works.....ton.13.50 - —
2-4 tons, works.....ton.14.50 - —
precipitated, bgs., c.l., works, ton.15.00 - —
l.c.l., 5 tons, works....ton.20.00 - —
smaller lots, works...ton.25.00 - —
Wild cherry bark, thick, natural, bls..lb. .07 - .08
rossed, bls.....lb. .05 - .06
thin, natural, bls.....lb. .07 - .08
rossed, green, bls.....lb. .10 - .11
Wild indigo root, bgs.....lb. .13 - .14
Witch-hazel extract, dist., NF, bbls..gal. .40 - .45
leaves, bls.....lb. .07 - .09
Witherite (see Barium carbonate, natural).
Woodflour, dom., fine, bgs., extra, c.l., works..ton.25.00 - —
standard, bgs., c.l., works, ton.20.00 - —
import, 70 mesh, bgs., ex dock, ton. No prices
80 mesh, bgs., ex dock....ton. No prices.
100 mesh, bgs., ex dock...ton. No prices.
120 mesh, bgs., ex dock...ton. No prices.
Wormseed, American, bgs.....lb. .08 - .09
Levant, bgs.....lb. 5.00 - 6.00
Wormwood, bls.....lb. .18 - .20

X

Xylol (xylene), indus., dms., returnable, works..gal. .32 - —
tanks, E. of Omaha, frt. alld., gal. .27 - —
tanks, W. Coast, f.o.b. Minnequa, Colo..gal. .27 - —
10°, dms., returnable, works. gal. .35 - —
tanks, E. of Omaha, frt. alld. gal. .30 - —
5°, dms., returnable, works. gal. .42 - —
tanks, E. of Omaha, frt. alld..gal. .40 - —
3°, dms., returnable, works..gal. .47 - —
tanks, E. of Omaha, frt. alld..gal. .45 - —
Xylidin, mixed, dms.....lb. .35 - .36

Y

Yara yara, cryst., cns.....lb. 1.25 - 1.55
Yellow, cadmium, CP, import., bxs..lb. 1.35 - 1.70
lithopone, all shades, bbls., 1 ton, works, frt. alld..lb. .50 - —
smaller lots, same basis..lb. .55 - —
lithopone, all shades, kgs., ton lots, same basis..lb. .55 - —
smaller lots, same basis, lb. .60 - —
Sulphide, orange, bbls., works, lb. .75 - —
Chrome, CP, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul, contracts.....lb. .13½- —
open order.....lb. .14½- —
Chrome yellow CP prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex., (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.). Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; ½c. higher dlvd. Pac. coast, for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.
Yellow, Dutch, pink, bbls.....lb. .09 - .11
Hansa, bbls., same basis, chrome..lb. 1.37 - —
primrose shade, bbls., same basis, chrome..lb. 1.75 - —
Mercury oxide (see M).
Ocher, Amer., golden, A, bbls., works..lb. .06¼- —
B, bbls., works.....lb. .04½- —
C, bbls., works.....lb. .05¾- —
yellow, A, bbls., works...lb. .02½- —
B, bbls., works.....lb. .02½- —
C, bbls., works.....lb. .02 - —
D, bbls., works.....lb. .0195- —
E, bbls., works.....lb. .01775- —
F, bbls., works.....lb. .01½- —
yellow, G, bbls., works...lb. .01½- —
H, bbls., works.....lb. .01¾- —
French, all shades, cks., c.l., ex dock Balto. Boston, N. Orleans, for import, lb. .02475 Nom.
New York (f.o.b.)..lb. .02¾ Nom.
Yellow ocher, French, all shades, Philadelphia for import..lb. .02¾-Nom.
ex dock, San Pedro, San Francisco..lb. .0290 Nom.
l.c.l., ex dock, Balto, Boston, N. Orleans..lb. .02575 Nom.
l.c.l., ex dock, Balto, Boston, N. Orleans..lb. .02575 Nom.
New York.....lb. .02¾ Nom.
ex dock, Phila., for import..lb. .02¾ Nom.
Portland, Seattle...lb. .03½ Nom.
San Pedro, S. Francisco..lb. .03 Nom.
ex whse., Balto., Boston, N. Orleans..lb. .02725 Nom.
Chicago, E. St. Louis, Indianapolis, Kan. City, Milwaukee, St. Louis .....lb. .03¾ Nom.
New York.....lb. .03 Nom.
l.c.l., ex whse., Pittsburgh, lb. .03¼ Nom.
Portland, Seattle.....lb. .03¾ Nom.
San Pedro, S. Francisco..lb. .03¼ Nom.
f.o.b. N. Y., from dock, lb. .02¾ Nom.
from whse.....lb. .03¼ Nom.
Oxide, nat., bbls., c.l., f.o.b. Bethlehem, Easton, N.Y..lb. .04½- —
l.c.l., same basis.....lb. .04¾- —
synth., bbls., c.l., works...lb. .06½- —
l.c.l., same basis.....lb. .06¾- —
Persian orange (see O.).
Zinc, bbls., same basis, chrome CP, contracts..lb. .18 - —
open order.....lb. .19 - —
Yellow dock root, dom., bls....lb. .17 - .18
Yellow root (xanthoriza), bls..lb. .11 - .13
Yerba santa leaves, bls.....lb. .09 - .10
Yohimbine hydrocrloride, via..oz. 4.00 - 4.25

Z

Zein, bgs., 1,000 lbs. or more, works..lb. .20 - —
less than 1,000 lbs., works lb. .25 - —
Zinc acetate, tech., bbls., works, lb. .15 - .16
USP, bbls., 250 lbs.....lb. .27 - —
kgs., 100 lbs.....lb. .29 - —
Arsenite, bgs., c.l., dealers, E. of Rockies..lb. .12 - —
l.c.l., bags .....lb. .12½- —
Zinc arsenite prices are on a frt. alld. basis to dest. in lots of 96 lbs. or over.
Carbonate, tech., bbls.....lb. .14 - .16
USP, precip., powd., bbls...lb. .31 - —
dms.....lb. .36 - —
kgs.....lb. .33 - —
Chloride, tech., fused, dms., c.l., works..100 lbs. 4.25 - —
l.c.l., works.....100 lbs. 4.60 - —
gran., dms., c.l., works, 100 lbs. 5.00 - —
USP, 200-lb. dms.....lb. .25 - —
25-lb. jars.....lb. .31 - —
solution, 50%, dms., c.l. works..lb. .0290- —
l.c.l., works.....lb. .04 - .04½
tanks, works.....lb. .0225- —
Cyanide, kgs., works.....lb. .33 - —
Dust, bbls., c.l., dlvd.....lb. .07½- —
l.c.l., bbls., dlvd.....lb. .08 - —
Iodide, N.F., bots.....lb. 4.35 - —
jars .....lb. 4.20 - —
Fluoride, bbls.....lb. .20 - .25
Metal (see daily quotations in Market report).
Oxide, pigment, dom., Amer., process, coml., lead free, bgs., c.l., dlvd..lb. .06¼- .07½
l.c.l., dlvd., except Pac. cst..lb. .06½- .07¾
bgs., l.c.l., ex whse., Pac. cst.....lb. .06½- .07¾
bbls., c.l., dlvd....lb. .06½- .07¾
l.c.l., dlvd., except Pac. cst..lb. .06¾- .08
ex whse., Pac. cst..lb. .06¾- .08
leaded, 5%, bgs., c.l., dlvd..lb. .06¼- —
l.c.l., dlvd., except Pac. cst..lb. .06⅝- —
ex whse.,Pac. cst.lb. .06⅝- —
bbls., c.l., dlvd....lb. .06⅝- —
l.c.l., dlvd., except Pac. cst..lb. .06⅝- —
ex whse.,Pac. cst.lb. .06⅝- —
35%, bgs., c.l., dvld..lb. .06 - —
l.c.l., dlvd., except Pac. cst..lb. .06¼- —
ex whse., Pac. cst. lb. .06¼- —
bbls., c.l., dlvd.....lb. .06¼- —
l.c.l., dlvd., except Pac. cst..lb. .06½- —
bgs., l.c.l., ex whse., Pac. cst..lb. .06½- —
50%, bgs., c.l., dlvd., except Pac. cst..lb. .0606- —
dlvd., Pac. cst..lb. .0612- —
l.c.l., dlvd., except Pac. cst..lb. .0631- —
bgs., ex whse., Pac. cst..lb. .0637- —
bbls., c.l., dlvd....lb. .0637- —
l.c.l., ex whse., Pac. Cst. lb. .0662- —
French process, com'l, lead free, bgs., c.l., dlvd., lb. .06¼- .07¼
l.c.l., dlvd., except Pac. cst..lb. .06½- .07¾
ex whse., Pac. cst.lb. .06½- .07¾
bbls., c.l., dlvd.....lb. .06½- .07¾
l.c.l., dlvd., except Pac. cst..lb. .06¾- .08
ex whse., Pac. cst. lb. .06¾- .08
green seal, bgs., c.l., dlvd., lb. .08 - —
l.c.l., dlvd., except Pac. cst..lb. .08¼- —
ex whse., Pac. cst.lb. .08¼- —
bbls., c.l., dlvd.....lb. .08¼- —
l.c.l., dlvd., except Pac. cst..lb. .08½- —
ex whse., Pac. cst.lb. .08½- —
red seal, bgs., c.l., dlvd..lb. .07½- —
l.c.l., dlvd., except Pac. cst..lb. .07¾- —
ex whse., Pac. cst..lb. .07¾- —
bbls., c.l., dlvd.....lb. .07¾- —
bbls., l.c.l., dlvd., except Pac. cst..lb. .08 - —
ex whse., Pac. cst..lb. .08 - —
white seal, bgs., c.l., dlvd. lb. .08½- —
l.c.l., dlvd., except Pac. cst..lb. .08¾- —
ex whse., Pac. cst..lb. .08¾- —
French process, white seal, l.c.l., ex whse., bbls., c.l..lb. .08¾- —
l.c.l., dlvd., except Pac. cst..lb. .09 - —
ex whse., Pac. cst..lb. .09 - —
imported, gold seal, cks., ex whse..lb. .13 - .14
green seal, bbls., ex whse., lb. .10 - —
white seal, cks., ex whse., lb. .11 - .12½
USP, bbls., c.l.....lb. .09½- —

Zinc Palm.—Neville

Zinc, palmitate, bbls.	lb.	.24½-	.27½
Resinate, fused, pale, bbls.	lb.	.10 -	—
precip., dms., dlvd.	lb.	.15 -	—
Stearate, tech., precip., bbls., ctns., c.l.	lb.	.23 -	—
l.c.l., 1 ton	lb.	.24 -	—
1,000-2,000 lbs.	lb.	.25 -	—
less than 1,000 lbs.	lb.	.26 -	—
USP, bbls.	lb.	.24 -	.26
Sulphate, cryst., bgs., c.l., 100 lbs.		2.75 -	—
l.c.l.	100 lbs.	3.50 -	—
bbls., c.l.	100 lbs.	2.90 -	—
l.c.l.	100 lbs.	3.65 -	—
flake, bgs., c.l.	100 lbs.	3.10 -	—
l.c.l.	100 lbs.	3.85 -	—
bbls., c.l.	100 lbs.	3.25 -	—
l.c.l.	100 lbs.	4.00 -	—
powd., bgs., c.l.	100 lbs.	4.35 -	—
l.c.l.	100 lbs.	5.10 -	—
bbls., c.l.	100 lbs.	4.50 -	—
l.c.l.	100 lbs.	5.25 -	—
Sulphide, bgs., c.l., (20 tons), dlvd.	lb.	.07¼-	—
l.c.l., dlvd. E. or ex whse., Pac. cst.	lb.	.07¾-	—
bbls., c.l., 20 bbls., c.l., (20 tons), dlvd.	lb.	.07¾-	—
l.c.l., dlvd. E. or ex whse., Pac. cst.	lb.	.08 -	—
barium, pigment, bgs., c.l., dlvd.	lb.	.05 -	—
l.c.l., dlvd. E. or ex whse. Pac. Cst.	lb.	.05¼-	—
calcium pigment, bgs., c.l., dlvd.	lb.	.05 -	—
l.cl.l., dlvd. E. or ex whse. Pac. Cst.	lb.	.05¼-	—
Zinc, sulphide, magnesium, pigment, bgs., c.l., dlvd.	lb.	.05½-	—
l.c.l., dlvd. E. or ex whse. Pac. Cst.	lb.	.05½-	—
Sulphocarbolate, NF, bbls.	lb.	.24 -	.26
Zinc-ammonia chloride, dms., c.l., works.	100 lbs.	5.15 -	—
l.c.l., works	100 lbs.	5.50 -	—
Zinc-iron oxide, pigment, bgs., c.l., dlvd.	lb.	.05 -	—
l.c.l., dlvd., except Pac. cst.	lb.	.05½-	—
ex whse., Pac. cst.	lb.	.05½-	—
Zirconium nitrate, kgs., works	lb.	3.00 -	4.00
Oxide, crude, 70-75%, grd., bbls., works.	ton.	75.00	-100.00
white, 98%, grd., kgs., works,	lb.	1.80 -	2.00

Synthetic Resins
and other
Branded Paint Materials
(Manufacturers' List Prices)

A

Abalyn dms., lots of 10, works,	lb.	.10 -	—
single dms., works	lb.	.12 -	—
5-gal. cans, works	lb.	.17 -	—
Aroclors, distilled, dms., c.l., works.	lb.	.23 -	—
ton lots, works	lb.	.25 -	—
single dms., works	lb.	.27 -	—
undistilled, dms., c.l., works,	lb.	.18 -	—
ton lots, works	lb.	.20 -	—
single dms., works	lb.	.22 -	—

B

Bakelite, dispersion resins, BK, 3862, bbls., 30,000 lbs., works.	lb.	.2490-	—
15,000 lbs., works	lb.	.2540-	—
5,000 lbs., works	lb.	.2590-	—
XK, 6791, dms., 30,000 lbs., works.	lb.	.2540-	—
15,000 lbs., works	lb.	.2590-	—
5,000 lbs., works	lb.	.2640-	—
11545, dms., 30,000 lbs. works.	lb.	.3050-	—
15,000 lbs., works	lb.	.3150-	—
5,000 lbs., works	lb.	.3250-	—
12788, dms., 30,000 lbs., works.	lbs.	.3860-	—
15,000 lbs., works	lb.	.3960-	—
5,000 lbs., works	lb.	.4060-	—
lacquer, BR, 2342, dms., 30,000 lbs., works.	lb.	.27 -	—
15,000 lbs., works	lb.	.28 -	—
5,000 lbs., works	lb.	.29 -	—
XR, 3180, dms., 30,000 lbs., works.	lb.	.45 -	—
15,000 lbs., works	lb.	.46 -	—
5,000 lbs., works	lb.	.47 -	—
4357, dms., 30,000 lbs., works,	lb.	.45 -	—
15,000 lbs., works	lb.	.46 -	—
5,000 lbs., works	lb.	.47 -	—
phenolic, 100%, BR, 254, bbls., 30,000 lbs., works.	lb.	.45 -	—
15,000 lbs., works	lb.	.46 -	—
5,000 lbs., works	lb.	.47 -	—
1329, bbls., 30,000 lbs., works.	lb.	.25 -	—
15,000 lbs., works	lb.	.26 -	—
5,000 lbs., works	lb.	.27 -	—
2987, bbls., 30,000 lbs., works.	lb.	.26 -	—
15,000 lbs., works	lb.	.27 -	—
5,000 lbs., works	lb.	.28 -	—
3360, bbls., 30,000 lbs., works.	lb.	.36 -	—
15,000 lbs., works	lb.	.37 -	—
5,000 lbs., works	lb.	.38 -	—
4036, bbls., 30,000 lbs., works.	lb.	.37 -	—
15,000 lbs., works	lb.	.38 -	—
5,000 lbs., works	lb.	.39 -	—
6882, bbls., 30,000 lbs., works.	lb.	.42 -	—
15,000 lbs., works	lb.	.43 -	—
5,000 lbs., works	lb.	.44 -	—
8900, bbls., 30,000 lbs., works.	lb.	.41 -	—
15,000 lbs., works	lb.	.42 -	—
5,000 lbs., works	lb.	.43 -	—
9476, bbls., 30,000 lbs., works.	lb.	.24 -	—
15,000 lbs., works	lb.	.24½-	—
5,000 lbs., works	lb.	.25 -	—
XR, 9517, dms., 30,000 lbs., works.	lb.	.29 -	—
15,000 lbs., works	lb.	.30 -	—
5,000 lbs., works	lb.	.31 -	—
drums, works	lb.	.32 -	—
10282, dms., 30,000 lbs., works.	lb.	.34 -	—
15,000 lbs., works	lb.	.35 -	—
5,000 lbs., works	lb.	.36 -	—
drums, works	lb.	.37 -	—
modified, BR, 302, dms., 30,000 lbs., works.	lb.	.2870-	—
15,000 lbs., works	lb.	.2970-	—
5,000 lbs., works	lb.	.3070-	—
2072, bbls., 30,000 lbs., works.	lb.	.23 -	—
15,000 lbs., works	lb.	.23½-	—
5,000 lbs., works	lb.	.24 -	—
Bakelite, modified, 2175, cns., 30,000 lbs., works.	lb.	.2810-	—
15,000 lbs., works	lb.	.2910-	—
5,000 lbs., works	lb.	.3010-	—
2963, bbls., 30,000 lbs., works.	lb.	.24 -	—
15,000 lbs., works	lb.	.24½-	—
5,000 lbs., works	lb.	.25 -	—
solutions, XJ, 180, dms., 30,000 lbs., works.	lb.	.1970-	—
15,000 lbs., works	lb.	.2020-	—
5,000 lbs., works	lb.	.2070-	—
2681, dms., 80,000 lbs., works.	lb.	.2520-	—
15,000 lbs., works	lb.	.2570-	—
5,000 lbs., works	lb.	.2620-	—
6,000, dms., 30,000 lbs., works.	lb.	.2970-	—
15,000 lbs., works	lb.	.3070-	—
5,000 lbs., works	lb.	.3170-	—
Beckacite, modified phenolic, 1100, dms., 1-9, frt. pd.	lb.	.14½-	—
1101, dms., 1-9, frt. pd.	lb.	.13 -	—
1102, dms., 1-9, frt. pd.	lb.	.12½-	—
1106, dms., 1-9, frt. pd.	lb.	.14 -	—
1107, dms., 1-9, frt. pd.	lb.	.13 -	—
1108, dms., 1-9, frt. pd.	lb.	.14 -	—
1112, dms., 1-9, frt. pd.	lb.	.14½-	—
1113, dms., 1-9, frt. pd.	lb.	.12 -	—
1116, dms., 1-9, frt. pd.	lb.	.14½-	—
P-146, dms., 1-9, frt. pd.	lb.	.11½-	—
P-147, dms., 1-9, frt. pd.	lb.	.12 -	—
1121, dms., 1-9, frt. pd.	lb.	.17½-	—
1122, dms., 1-9, frt. pd.	lb.	.14½-	—
nonphenolic, 1110, dms., 1-9, frt. pd.	lb.	.12¾-	—
1111, dms., 1-9, frt. pd.	lb.	.13 -	—
1114, dms., 1-9, frt. pd.	lb.	.12½-	—
1120, dms., 1-9, frt. pd.	lb.	.13 -	—

Beckacite prices in lots of 10 dms. or more are ½c. per lb. less than above; in carloads, 1c. per lb. less. These prices apply in N. E. and Mid-Atl. States, Ill., Ind., Ky., Mich., Minn., N. C., Ohio, Va., W. Va., Wis., and St. Louis, Mo.; add ¾c. per lb. on less than carloads and ½c. per lb. on carloads to Ark., Iowa, Kan., Mo. (except St. Louis), Neb., N. D., Okla., S. D., all South. States, and Dallas and Houston, Tex.; for Calif. add ¾c. per lb. on less than carloads and ½c. per lb. on carloads of regular items covered by contract, on items not shown in this list and items not covered by contract which must be shipped direct from Detroit, Mich., or Elizabeth, N. J., add 2c. per lb. on less than carloads and 1c. per lb. on carloads; carload prices listed above apply on shipments by water from Elizabeth, N. J., ex dock at Los Angeles, San Francisco, or Seattle; add 2c. per lb. on less than carloads and 1c. per lb. on carloads to Tex. (except Dallas and Houston) and all other points in the U. S. not mentioned in the foregoing.

Beckamine, 3440, ex. lt., dms., 1-9, frt. pd.	lb.	.21½-	—
P-2, dms., 1-9, frt. pd.	lb.	.12 -	—
P-138, dms., 1-9, frt. pd.	lb.	.20½-	—
P-196, dms., 1-9, frt. pd.	lb.	.24 -	—
P-198, dms., 1-9, frt. pd.	lb.	.36 -	—

Beckamine prices in lots of 10 dms. or more are ½c. per lb. less than above; in carloads, 1c. per lb. less; subject to same geographical differentials as Beckacite.

Beckolin, dark, dms., 1-9, frt. pd.	lb.	.16½-	—
light, dms., 1-9, frt. pd.	lb.	.18½-	—

Beckolin prices in lots of 10 dms. or more are ½c. per lb. less than above; in carloads, 1c. per lb. less; subject to same geographical differentials as Beckacite.

Beckopol, 1400, dms., 1-9, frt. pd.	lb.	.17½-	—

Beckopol prices in lots of 10 dms. or more are ½c. per lb. less than above; in carloads, 1c. per lb. less; subject to same geographical differentials as Beckacite.

Beckosol, emulsion, 1500, dms., 1-9, frt. pd.	lb.	.11½-	—
1501, dms., 1-9, frt. pd.	lb.	.12½-	—
Solid, 1, dms., 1-9, frt. pd.	lb.	.25 -	—
3, dms., 1-9, frt. pd.	lb.	.23 -	—
7, dms., 1-9, frt. pd.	lb.	.24 -	—
13, dms., 1-9, frt. pd.	lb.	.23 -	—
18, dms., 1-9, frt. pd.	lb.	.22 -	—
19, dms., 1-9, frt. pd.	lb.	.27 -	—
24, dms., 1-9, frt. pd.	lb.	.30 -	—
31, dms., 1-9, frt. pd.	lb.	.23 -	—
32, dms., 1-9, frt. pd.	lb.	.22 -	—
Solution, nonphenolic, 1309, dms., 1-9, frt. pd.	lb.	.18½-	—
1319, dms., 1-9, frt. pd.	lb.	.18½-	—
1321, dms., 1-9, frt. pd.	lb.	.17½-	—
phenol modified, 1303, dms., 1-9, frt. pd.	lb.	.13½-	—
1304, dms., 1-9, frt. pd.	lb.	.13½-	—
1320, dms., 1-9, frt. pd.	lb.	.14 -	—
1325, dms., 1-9, frt. pd.	lb.	.13 -	—
1328, dms., 1-9, frt. pd.	lb.	.12 -	—
1329, dms., 1-9, frt. pd.	lb.	.12 -	—
phenol modified and oil extended, 1, dms., 1-9, frt. pd.	lb.	.13½-	—
2, dms., 1-9, frt. pd.	lb.	.13 -	—
1316, dms., 1-9, frt. pd.	lb.	.14½-	—
1326, dms., 1-9, frt. pd.	lb.	.14 -	—
Phenol, pure alkyd, 1306, dms., 1-9, frt. pd.	lb.	.12½-	—
1307, ex. lt., dms., 1-9, frt. pd.	lb.	.14½-	—
light, dms., 1-9, frt. pd.	lb.	.13½-	—
1308, dms., 1-9, frt. pd.	lb.	.13½-	—
1313, ex. lt., dms., 1-9, frt. pd.	lb.	.13½-	—
light, dms., 1-9, frt. pd.	lb.	.12½-	—
1318, dms., 1-9, frt. pd.	lb.	.16½-	—
modified, pure alkyd., 1323, ex lt., dms., 1-9, frt. pd.	lb.	.14½-	—
light, dms., 1-9, frt. pd.	lb.	.13½-	—
1324, dms., 1-9, frt. pd.	lb.	.24½-	—
1331, dms., 1-9, frt. pd.	lb.	.12½-	—
1332, dms., 1-9, frt. pd.	lb.	.12 -	—
1333, dms., 1-9, frt. pd.	lb.	.14½-	—
1334, dms., 1-9, frt. pd.	lb.	.13¼-	—
P-7, dms., 1-9, frt. pd.	lb.	.14½-	—
P-43, dms., 1-9 frt. pd.	lb.	.12¼-	—
P-94, dms., 1-9, frt. pd.	lb.	.16½-	—

Beckosol, solid, prices in lots of 10 dms. or more are ¾c. per lb. less than above; in carloads, 1½c. per lb. less; prices of other Beckosols are ½c. per lb. less in lots of 10 dms. or more, 1c. per lb. less in carloads; all are subject to the same geographical differentials as Beckacite.

C

Cumar, AX, dms., works	lb.	.06 -	—
BX, dms., works	lb.	.06 -	—
CX, dms., gross weight, works,	lb.	.05 -	—
DX, dms., gross weight, works,	lb.	.04½-	—
EX, dms., gross weight, works,	lb.	.04½-	—
FX, dms., gross weight, works,	lb.	.05 -	—
MH, col. 1, dms., works	lb.	.11 -	—
1½-2, dms., works	lb.	.10 -	—
2½ and darker, dms., works	lb.	.09 -	—
MS, dms., works	lb.	.10 -	—
P, 10°-90° C., col. 8 and darker, dms., works.	lb.	.10½-	—
Cumar, RH, dms., works	lb.	.10 -	—
RS, dms., works	lb.	.10 -	—
special soft, dms., works	lb.	.10 -	—
V, col. ½, dms., works	lb.	.12 -	—
1, dms., works	lb.	.11 -	—
1½-2, dms., works	lb.	.10 -	—
2½ and darker, dms., works.	lb.	.09 -	—
W, col. ½, dms., works	lb.	.13 -	—
1, dms., works	lb.	.12 -	—
1½-2, dms., works	lb.	.11 -	—
2½ and darker, dms., works.	lb.	.10 -	—

Cumar prices include frt. equald., with Pittsburgh; prices on contracts terminating Dec., 1940, are ¼c. per pound lower.

D

Durez, 202, dms., 30,000 lbs., works.	lb.	.36 -	—
l.c.l., works	lb.	.38 -	—
209, dms., 30,000 lbs., works.	lb.	.13½-	—
l.c.l., works	lb.	.14 -	—
210, dms., 30,000 lbs., works.	lb.	.14½-	—
l.c.l., works	lb.	.15 -	—
220, dms., 30,000 lbs., works.	lb.	.15 -	—
l.c.l., works	lb.	.15½-	—
500, dms., 30,000 lbs., works.	lb.	.32 -	—
l.c.l., works	lb.	.33 -	—
525, dms., 30,000 lbs., works.	lb.	.23 -	—
l.c.l., works	lb.	.25 -	—
550, dms., 30,000 lbs., works.	lb.	.29 -	—
l.c.l., works	lb.	.30 -	—
570, dms., 80,000 lbs., works.	lb.	.44 -	—
l.c.l., works	lb.	.45 -	—

Durez c.l. prices also apply on mixed cars; three-month contracts are for price protection only; for Pacific Coast and Gulf points, ex warehouse, add 3c. per lb.

Durite, 1,301 pale, one drum and over.	lb.	.25 -	—
smaller lots	lb.	.26 -	—
1,321, c.l.	lb.	.40 -	—
2,000 lbs. to c.l.	lb.	.41 -	—
smaller lots	lb.	.42 -	—

All Durite prices are f.o.b. Phila., Pa., with freight allowed east of Rocky Mts.

G

G, resin, dms., gross weight, works.	lb.	.07½-	—

G resin prices on contracts terminating Dec., 1940, are ¼c. per pound lower; Los Angeles and San Francisco ex warehouse, 3c. per pound extra.

Guai-a-phene, 10-gal. cns., works,	gal.	2.57 -	—
5-gal. cns., works	gal.	2.62 -	—
1-gal. cns., works	gal.	2.82 -	—
dms., works	gal.	2.50 -	—

H

Hercolyn, dms., lots of 10, works,	lb.	.15 -	—
single dms., works	lb.	.17 -	—
cns, works	lb.	.22 -	—
Hydrogum, c.l., dms., frt. pd.	lb.	.15 -	—

K

Kadox (zinc oxide), black or red label, bgs., c.l., dlvd.	lb.	.06½-	—
l.c.l., dlvd. E. of Rockies.	lb.	.06¾-	—
Pac. coast, ex whse.	lb.	.06¾-	—
bbls., c.l., dlvd	lb.	.06¾-	—
l.c.l., dlvd. E. of Rockies.	lb.	.07 -	—
Pac. coast, ex whse.	lb.	.07 -	—
No. 25, bgs., c.l., dlvd.	lb.	.07½-	—
l.c.l., dlvd. E. of Rockies,	lb.	.07¾-	—
Pac. coast, ex whse.	lb.	.07¾-	—
Kadox, No. 25, bbls., c.l., dlvd.	lb.	.07¾-	—
l.c.l., dlvd. E. of Rockies,	lb.	.08 -	—
Pac. coast, ex whse.	lb.	.08 -	—
Katalised oil, 666, dms., c.l., frt. pd.	lb.	.23½-	—
l.c.l., frt. pd.	lb.	.23 -	—

Katalised oil prices are subject to the same geographical differentials as Beckacite.

Kopol, 500, dms., 1-9, frt. pd.	lb.	.18½-	—
501, dms., 1-9, frt. pd.	lb.	.16½-	—
502, dms., 1-9, frt. pd.	lb.	.15 -	—

Kopol prices in lots of 10 dms. or more are ½c. per lb. less than above; in carloads, 1c. per lb. less; subject to same geographical differentials as Beckacite.

R-C copal, cracked nut, dms., c.l., frt. pd.	lb.	.09½-	—
l.c.l., frt. pd.	lb.	.09 -	—

R-C copal prices are subject to the same geographical differentials as Beckacite.

N

Nevillac, dms., works	lb.	.17 -	—

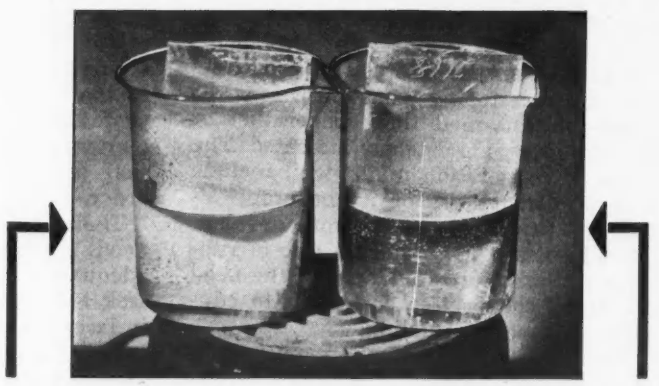
Nevillac prices on contracts terminating Dec., 1940, are ¼c. per pound lower; Los Angeles and San Francisco ex whse., 3c. per pound extra.

Neville resin, R-1 nevindene, col. ½, dms., works.	lb.	.13 -	—
R-3, nevindene, col. 1, dms., works.	lb.	.12 -	—
R-5, nevindene, col. 1½-2, dms., works.	lb.	.11 -	—
R-6, nevindene, col. 2½-3½, dms., works.	lb.	.10 -	—
R-7, N.P.S., col. below 3, dms., works.	lb.	.12 -	—
R-8, N.P.S., col. below 3, dms., works.	lb.	.12½-	—
R-9, hard, col. ½, dms., works.	lb.	.12 -	—
R-10, hard, col. 1, dms., works.	lb.	.11 -	—
R-11, hard, col. 1½-2, dms., works.	lb.	.10 -	—
R-12, hard, col. 2½-3½, dms., works.	lb.	.09 -	—
R-13, medium, col. ½, dms., works.	lb.	.12 -	—
R-14, medium, col. 1, dms., works.	lb.	.11 -	—
R-15, medium, col. 1½-2, dms., works.	lb.	.10 -	—
R-16, medium, col. 2½-4, dms., works.	lb.	.09 -	—
R-16-A, medium, col. 7-10, dms., works.	lb.	.06½-	—
R-17, medium soft, col. 3½-8, dms., works.	lb.	.10 -	—
R-19, medium soft, col. 3½-8, dms., works.	lb.	.10 -	—
R-21, soft, col. 3½-8, dms., works.	lb.	.10 -	—
R-22, special, soft, col. 3½-8, dms., works.	lb.	.10 -	—
R-27, medium soft, col. 1, dms., works.	lb.	.12½-	—
R-28, medium soft, col. 1½-2, dms., works.	lb.	.11½-	—
R-29, medium soft, col. 2½-8, dms., works.	lb.	.10½-	—

Neville resin prices are freight equalized with Phila.; prices on contracts terminating Dec., 1940, are ¼c. per pound lower; Los Angeles and San Francisco ex whse., 3c. per pound extra.

—*Continued on page 38*

NOW—Straight Perilla finishes waterproofed with NEW Durez 209



PERILLA OIL SPAR varnish formulated without 209 breaks down in boiling water test.

PERILLA OIL SPAR formulated *with* Durez 209 stands 2½-hour boiling water test *unaffected*.

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William O. Allison

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Vol. 137 February 5, 1940 Number 6

Consumer Movement Needed

Although the caption might reasonably be applied to the consumer movement as popularly understood, the purpose here is to deal with a special group of consumers —those who use alcohol in the manufacturing of preparations which are in no sense capable of being regarded as intoxicating beverages. A movement of consumers of alcohol for industrial purposes is greatly needed to maintain the existing taxfree status of alcohol denatured for such use and to strive for the extension of the exemption from taxation to alcohol used in the manufacture of medicines and foods.

A nucleus of this necessary movement is available in the Council of Industrial Alcohol Users. This might well be expanded, by simple enrollment or otherwise, to include producers of alcohol for industrial use; the interests of producers and manufacturing consumers are so closely intertwined that cooperation of the two groups is patently indicated. The scope of cooperation might well include that of distributors of nonbeverage alcoholic preparations; recent development in connection with the sale of rubbing alcohol affords evidence of the need for broad cooperative endeavors in education and self-regulation.

The use of alcohol in the manufacture of medicines, flavorings, and the like is undeniably an industrial use. There is discrimination that is unreasonable in denying to such use in the providing of articles essential to life and well-being the relief from burdensome taxes that is afforded in the manufacture of other, perhaps equally, but no more so, necessary articles of commerce.

Insofar as medicines for external use are concerned the prevention of the diversion to beverage uses of alcohol intended for such industrial drug use should not present an insurmountable problem of denaturation, now that strong safeguards have been laid about the sale of rubbing alcohol. With respect to alcohol for industrial uses where the pure material must be used, the problem is one of control. To its solution the industrial users of such alcohol should be able to contribute suggestion and cooperation.

For Better Medical Care

The President has asked the Congress for an appropriation of $7,500,000 to $10,000,000 to carry out his idea of providing hospitals for small communities where such aids to adequate medical care are lacking. This idea is commendable; and, as expressed in outline, the plan for carrying it out has no aspect of political medicine. But, the President has made it clear that his hospital program is only the start on an extensive governmentally sponsored and seemingly governmentally controlled scheme of health protection for the general public. This is what must be watched and doubtless in many particulars combatted by all private interests having to do with the healing arts.

One of the United States Senators from New York State has completed a health service program which is far more ambitious than that of the President. This contemplates the loaning of $300,000,000 by the government for a variety of projects designed to improve the health of the people and to maintain it. This plan includes the construction of hospitals with public funds placed at the disposal of nonprofit private agencies, at least in part. It includes also loans to "public bodies" for the improving of water and sewage systems, the reduction of stream pollution, and other purposes.

This plan does not go to the extent of subsidizing doctors for public health service. It stops short of political medicine. But, it goes into so many other things to be handled by public (political) bodies, on which prevailing views are quite controversial, that it cannot be commended for general approval.

—O-P-D—

Not Government's Job

The health of its people is an important asset of any nation. This does not make the providing of sanitary protection and medical care a governmental function, whether of Federal agency or of other "public body." It offers in largest part an economic problem which is intimately related with the welfare of private enterprise. This is recognized by all progressive businessmen, even more so than by the majority of the medical profession, and business has provided for its own people in many instances sanitation and medical care of the highest order.

There can be no denying that the needs of the people as a whole are not adequately served in medical care. The lack is attributable in part to ignorance, in larger part to lack of funds. It is only in small part the result of wilful inconsiderateness. But, there is enough of this last to provide excuse for those in government who are ever on the alert to discover something they can take over from business. That more always is taken over than can reasonably be justified is but the natural process of such usurpation.

If the camel does not get its nose under the tent wall, it cannot progressively insinuate itself into the interior. The inroads of governmental "progressiveness" upon private enterprise must be "nipped in the bud" if they are to be prevented from "spreading into a conflagration" which eventually will "engulf the whole." (The supply of appropriate metaphors ran out.) The camel is not a predatory beast; but it is a bulky creature, and its "atmosphere" is also a bit discomforting in close quarters. The camel has a tender nose—but there the analogy with government runs out; no mere tap will discourage that pervading proboscis.

The best means of excluding the unwelcome and troublesome intruder is to peg down the tent walls adequately and securely. That is, the drug industry—to get back to the particular governmental intrusion of interest here—must join with all other members of the medical service group in coordinated and cooperative endeavors to provide medical care which has no loopholes, or dropped stitches, or other faults through which even an excuse for usurpation can pass.

—O-P-D—

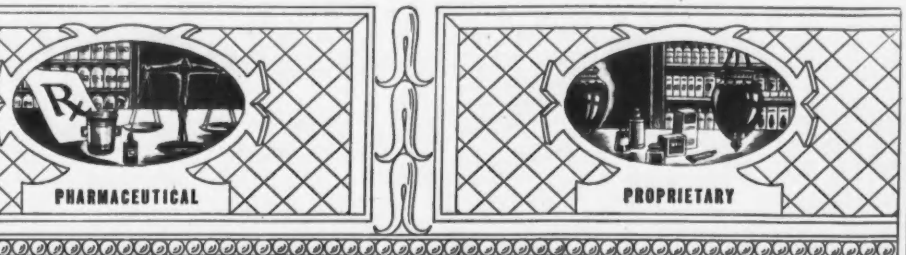
Campaigning Against Psylla

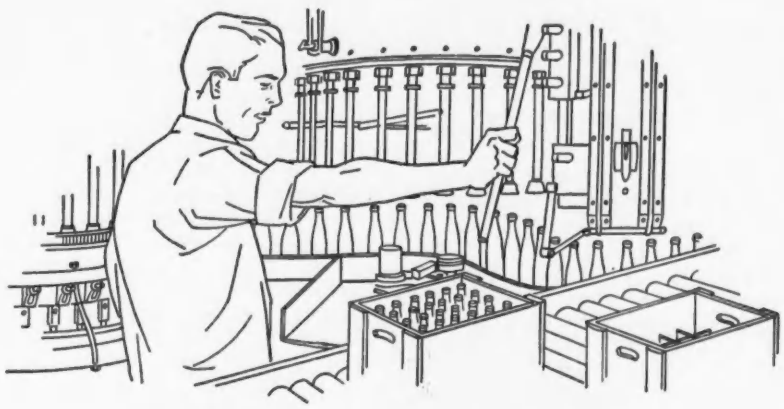
The United States Department of Agriculture is enlisting the assistance of similar agencies of the several States in a campaign against Psylla. Be it understood at once that this has nothing to do with the often storied warnings and battlings against Scylla. Scylla was a mythological monster with six destructive heads. Psylla has only one head, but there are a myriad of individuals all bent on destruction. The campaign against Psylla is not mythological; it is entomological; for Psylla is a destructive insect which threatens the profitableness and the very existence of the growing of pears in the Pacific Northwest.

Every schoolboy has been thrilled by the stories of the mythological monsters and fired with a desire to go forth and do battle with the dangers they presented. There is less thrill in the present necessity to combat the entomological destroyers of today, although the harm they do is a thousandfold that of the ancient, fabulous creatures of destruction. Their depredations should enlist men in their extermination. They should be as dragons of old to all who would see a fuller and more profitable economic life. Particularly should they find foemen in the ranks of the insecticide industry. The war against economic enemies should not be left to government to declare and to prosecute.

The pear Psylla is as yet confined to a relatively small area of destruction. It can and may extend its pernicious activities. Is the insecticide industry prepared with knowledge and with weapons to prevent its advances? Apparently effective insecticides are available for use as sprays that destroy Psylla. Doubtless the government will be buying these destructive agents from private manufacturers, perhaps according to special formulas, governmentally developed. That is the way government becomes intimately associated in economic problems and necessarily in economic functionings —in business activities; for the combatting of predatory insects is a business activity.

It is a short step from the buying and supplying of insecticides to the making of them. This step has been taken in one direction with respect to fertilizers. There are governmental flood-control and power-producing projects in the section of the country where Psylla and many other destructive insects must be fought. "By-product" uses for these works have a special appeal for governmental economic minds. The insecticide industry has a real and a big job to do for private enterprise by minimizing the participation of government in the campaign against Psylla—and against the grasshopper, the Mormon cricket, and every other bad bug.





A Tribute to the Beverage Industry

American travelers, homeward bound, can hardly wait to get back to such dear, familiar treats as ice cream sodas and the rest of those fine beverages in which America leads the world. The extraordinary growth of the beverage industry in this country is soundly based on the excellence achieved by the American producers' high standards and painstaking care in the preparation of these products. Chas. Pfizer & Co. takes legitimate pride in its share in the development of the great American beverage industry, and in the fact that Pfizer standards of purity and quality have played their part in the achievement of American beverage products whose superiority is recognized the world over.

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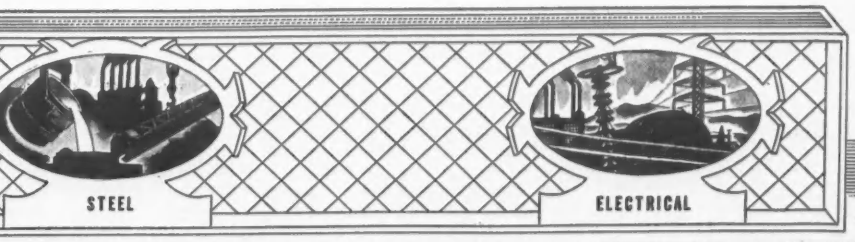

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Heavy Chemicals

Technical Grades of Gallic and Tannic Acid Advanced — Plans Underway for Cobalt Oxide Production Here — Tin Oxide Reduced — Copper Salts Unchanged

Transactions in the market for heavy chemicals were only moderate last week. There were no indications of renewed buying interest, and shipments against contracts were in line with actual replacement requirements. The easing off from the higher levels was more or less anticipated, and most factors were satisfied with the near term outlook after allowing for usual seasonal adjustments. The consistent cold weather was not a helpful factor. The movement of agricultural insecticides and fungicides was retarded by the sub-zero weather in many sections, particularly in the South where widespread damage occurred to truck and fruit crops.

The advance in technical gallic and tannic acid provided the outstanding price developments. The higher prices were attributed to the increased replacement costs in primary markets. Further easiness in copper failed to bring any change in copper sulphate or other copper derivatives. The decline in tin oxide reflected the lower Straits metal price. Barium nitrate was available in larger quantities at lower levels.

Plans are being formulated for domestic production of cobalt oxide. A leading factor already has made considerable prelimary arrangements for the manufacture of the material from African cobalt ore, which will be converted by local processors. Shipments from Belgium have been retarded to some extent, and future deliveries are contingent upon the developments in the European conflict. Shipments from Germany have stopped since the war.

Price Changes

Advanced

Acid, gallic, tech., 5c. per lb.
Acid, tannic, tech., 4c. per lb.

Reduced

Barium nitrate, 1½c. per lb.
Copper electrolytic, ⅜c. per lb.
Tin oxide, 1c. per lb.

Comparative Values

Index numbers compiled from twenty-five typical chemicals on the basis of 100 for August 1, 1914, compare as follows:—

Last week.	Prev. week.	Last month.	Last year.
152.5	152.5	151.9	147.2

Index numbers compiled from twenty typical acids on the basis of 100 for August 1, 1914, compare as follows:—

Last week.	Prev. week.	Last month.	Last year.
101.6	99.0	99.0	99.6

Market news that may have developed after this report was sent to press will be found on page 4.

Alums—Commitments against contracts were moderate. Quotations for ammonia, potash and soda alums were unchanged and firm.

Alumina Sulphate. — The call for water treating and industrial purposes was steady, but volume failed to expand. Quotations ruled firm.

Ammonia Anhydrous. — Market continued to follow normal seasonal trend. No change was disclosed in the prices.

Ammonia Aqua. — Business was moderately active. Quotations were maintained at firm levels.

Ammonia Carbonate. — Dealings were of a routine character. Prices were unchanged and firm.

Ammonia Perchlorate. — Market fully retained its strong position. Shipments usually confined to normal requirements.

Ammoniac, Sal.—Demand continued to exceed production, and sellers were endeavoring to reduce backlogs. Prices were the same, and the market was very firm.

Antimony.—Dealings in domestic metal were quiet. Spot price unchanged at 14c. per pound. There was nothing new to report in the oxide and needle of antimony.

Arsenic.—Movement of white for insecticide purposes was satisfactory. Limited supplies of red were available, and prices were strictly nominal.

Barium Salts. — The nitrate was available in larger quantities at 9½c. per pound, ranging to 10½c. for smaller amounts. Quotations for the carbonate, chlorate, chloride, dioxide, fluoride and oxide were firm. Business was generally moderate.

Bleaching Powder.—Buying failed to broaden, with most consumers exerting a more conservatice policy at this time. Prices held firm.

Blue Vitriol (Copper Sulphate).—The further easiness in the basic metal failed to have any immediate reflection on prices, and quotations established the preceding period were maintained. Preparations were under way for the usual seasonal movement for agricultural purposes. Export and industrial demand was satisfactory.

Calcium Chloride.—Withdrawals for ice control work remained good. The call for miscellaneous uses was also well sustained. Prices were without alteration, and the tone of the market held firm.

Carbon Tetrachloride. — Consumers entered the market for routine quantities against contracts. Prices were in conformity with those prevailing previously.

Chlorine.—A steady interest prevailed in this direction. Demand was not expanding to any degree, but was sufficient to keep the market in a firm position.

Cobalt Oxide.—Preparations were under way for domestic production. Sellers were only able to supply regular consumers for current requirements, with shipments from abroad uncertain and stocks here limited.

Copper.—Leading primary producers followed the reduction of ⅜c. made by a large custom smelter January 26, making the domestic price 11⅝c. per pound. Buying was dull. Export business light, prices ranged from 11.60c. for February to 11.40c. per pound for April. Outside quotations were 11.50c. to 11.60c. per pound.

Copper Salts.—No changes were uncovered, despite the further easiness in the metal. Shipments moved steadily against contracts, with sellers well booked ahead.

Copperas. — Market position was strong. Shipments moved to regular consumers channels steadily. Prices were firm.

Fluorspar.—Demand was only moderate. Prices were the same, and the tone of the market was firm.

Glauber's Salt.—Buying failed to broaden, but interest was fairly steady against contracts. Prices were well sustained.

Lead Nitrate.—No new developments took place, with buying more conservative, and prices in line with those established previously.

Magnesite.—Some word was expected shortly concerning readjustment in domestic prices to conform with lower shipping costs. Buying was spotty.

Manganese Dioxide.—Business in the Caucasian was still largely confined to

Current prices on heavy chemicals are given in the alphabetical list of prices beginning on page 7

contract withdrawals, with spot material scarce. Prices were firm.

Nickel Salts.—Buying was routine, and gave no immediate indications of expanding. Pricewise a firm tone governed the transactions.

Potash Carbonate.—Production and shipments were maintained at a good pace. Most business constituted contract withdrawals, with little spot or export business consummated. Prices were firm.

Potash, Caustic.—Consumers were making steady commitments against contracts. Market position was strong and prices well sustained.

Potash Chlorate.—Further evidence of more normal conditions were uncovered. Activity in the resale market was diminished considerably. Supplies were believed adequate to meet regular requirements.

Saltcake.—Domestic material was steady, reflecting the uncertainty for the imported because of the high costs of production and shipping costs. Prices nominal.

Saltpeter.—New business less active, but shipments steady. Prices unchanged and firm.

Soda Ash.—Consumers entered market for necessary requirements, with little indications of forward buying. Demand for export showed no expansion. Prices firm.

Soda Bicarbonate. — Transactions routine. Export demand fair. Prices without change.

Soda, Caustic.—Demand failed to broaden; most consumers were content to make necessary replacements. Export demand tapered off from high levels. Prices were well maintained.

Soda Chlorate.—Seasonal demand for weed-killing purposes awaited, while current shipments were conservative. Prices hold firm.

Soda Cyanide.—Withdrawals were spotty; most consumers were content to mark time before making sizable replacements. Prices were firm.

Soda Hydrosulphite.—Market position remained strong. Contract shipments steady. Little spot offered. Prices without alteration.

Soda Nitrite.—Shipments moved to various consumers at a steady pace. Prices were well maintained, and the market was firm.

Soda Phosphate.—Demand remained moderately active, but shipments failed to broaden. Pricewise a firm tone predominated.

Soda Silicofluoride.—Domestic material moved against contracts steadily; spot offerings were limited. Prices for imported were firm and demand was only fair.

Sulphur, Refined.—Business failed to broaden, but shipments were along normal lines to the various consuming channels. Prices ruled firm.

Tin Salts.—A decline in tin oxide to the basis of 51c. to 53c. per pound provided the only change in the market for tin derivatives. Straits metal was steady, ranging between 46c. and 45½c. per pound.

Zinc Sulphate.—A steady to firm price tone characterized the trading. Shipments were steady and moderate against existing contracts.

Acids

Demand for mineral acids gave further indications of leveling off. Practically all consumers were content to make only necessary commitments against contracts to provide for nearby replacement requirements. The only changes occurred in technical gallic and tannic acid, which were revised upward to conform with the higher replacement costs.

Acetic.—Shipments more moderate, but buying fairly steady. No change disclosed in the prices.

Chromic.—Prices were firm. Buying confined to necessary replacements as a rule.

Formic.—Withdrawals against contracts steady, and market tone firm.

Gallic.—The technical grade advanced 5c., ranging from 75c. to 78c. per pound in barrels. The change reflected the higher replacement costs. Demand not active.

Muriatic.—Market position firm. Demand from various consumers more in line with actual requirements.

Nitric.—There was little change in the character of business, with most consumers content to make necessary commitments. Prices were firm.

Oxalic.—Supplies were limited, and shipments restricted to regular con-

—*Continued on page* 32

Chemist Advisory Group Reviews Its Work

—*Continued from page* 3

on hand $2,659.96. Plans were discussed for obtaining more funds through more widespread contributions.

In his report as secretary in charge of the council's work M. R. Bhagwat made the following recommendations:—

The procedure now adopted in assisting chemists and chemical engineers should be continued.

The heads of the departments of chemistry and chemical engineering in colleges and universities should be informed of the council's activities, bringing to their attention the assistance of this organization in helping graduates and postgraduates without experience.

The technical directors of industrial laboratories should be informed of the council's services, both to the industry and to the men and women with industrial experience, with the hope of securing their cooperation; first, in the matter of employment for chemists and chemical engineers, and second, to secure financial assistance to the work of the council from the members of their respective staffs.

The procedure now adopted by the committee of the North Jersey section of the American Chemical Society in securing subscriptions from individual chemists and chemical engineers located in their area towards the support of the council should be extended to cover other industrial sections.

The chemical industry directly, or indirectly through the associations representing same, should be asked to lend their support to the work of the council by perhaps underwriting the annual office expenditures.

Prominent members in the chemical industry who have not yet contributed to the work of the council should again be approached for their support.

Publicity for the council's activities through technical publications, or other suitable channels, will prove essential in obtaining the needed financial support from the chemical professions as a whole.

It is recommended that the council should set its goal to secure a maximum of $25,000, or a minimum of $15,000 a year so that the permanence of the organization is definitely assured. This recommendation is based on expenditures of other professional organizations rendering similar services to their members and the industry.

Resolutions were adopted expressing gratitude to those who had contributed to the council's funds; to the officers and the members who had made efforts to obtain contributions; to the Carbide & Carbon Chemical Corporation for the donation of office space and equipment; and to the American Cyanamid Company for the donation also of office equipment.

The council now has nineteen members. Membership proposals are being sent to six other men prominent in the fields of scientific and applied chemistry.

The following were re-elected as members of the board of directors:—

Robert T. Baldwin, Frederick M. Becket, Marston T. Bogert, Frank G. Breyer, Gustavus J. Esselen, Walter S. Landis, William T. Read, Maximilian Toch, and Edward R. Weidlein.

Officers were elected at a subsequent meeting of the board of directors. Dr. W. S. Landis declined re-election as president because absence from the city in the ensuing year would preclude his giving proper attention to the position. The officers elected are:—

President, Prof. William T. Read, dean of the department of chemistry, Rutgers University, New Brunswick, N. J.

Vice-president, Dr. Gustavus J. Esselen, consulting chemical engineer, Boston.

Secretary (re-elected), M. H. Bhagwat, 300 Madison avenue, New York.

Treasurer (re-elected), Robert T. Baldwin, New York.

Chairman of executive committee (re-elected), Dr. Frederick M. Becket, of the Electro-Metallurgical Company, New York.

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STANDARD SINCE 1881

Heavy Chemicals

Acids

—*Continued from page 31*

sumers. Prices were unaltered and firm.

Sulphuric.—Demand continued to follow a more normal trend. Consumers were content to enter market for quantities commensurate with nearby requirements. Prices firm.

Tannic.—Quotations for technical were advanced 4c. per pound to the basis of 44c. to conform with the higher raw material costs. Interest was not very active.

Baltimore, Jan. 31.—The market for sulphuric acid is about as it has been for weeks. The nominal quotations still at $12 per ton for 60 degree and at $15 per ton for 66 degree acid. Plants are busy, but not rushed, to take care of the requirements of the trade, with the delayed buying by fertilizer manufacturers somewhat of an offset to the interest manifested by other purchasers. Oleum seems to be stationary at $17 to $18 per ton for 20 percent supplies.

Insecticides

The appearance of unusually cold temperatures in many sections, particularly the South, retarded business in the market for agricultural insecticides and fungicides. The most acute cold in many years gripped sections of the South. Louisiana, Tennessee, Virginia, Carolinas, Georgia, Arkansas, Mississippi and Florida were all hit by the cold wave, causing heavy damage to vegetable and fruit crops. The Winter truck and citrus crops in Florida were almost a total loss. Produce in Louisiana was badly damaged. Tobacco markets in Virginia were closed. The peach crop in sections of Arkansas was ruined. Temperatures began to return to normal later, but it was difficult to ascertain the extent of the damage so far.

Calcium Arsenate.—Active season will soon be under way; cold weather has retarded early start. Prices were without change.

Lead Arsenate.—Preparations were practically concluded for consuming season just ahead, but unseasonable weather in some sections was a retarding factor. Prices ruled unchanged.

Bloede Scholarship Applications Issued

The board of trustees of the Chemists' Club are now accepting applications for the Bloede scholarship for the school year 1940-41. This scholarship, which was founded in 1916 through the generosity of the late Dr. Victor G. Bloede, was originally awarded annually. Appointments are now to be made in alternate years; the stipend is $580, paid in semi-annual installments of $290.

Candidates are limited to men entering the last year of post-graduate work leading to the Ph.D. degree in chemistry or in chemical engineering in an institution of recognized standing. It is understood that the applicant should not hold simultaneously any other remunerative appointment.

Blanks may be obtained from the secretary of the Chemists Club, 52 East 41st street, New York. Applications will not be accepted after April 15, 1940.

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(Parenthetical references are to the numbers of patents in the United States or other countries, as designated)

Barium Carbonate

(Continued from January 29 issue)

Coal and By-Products

Ingredient (U.S. 1361131) of—
Charcoal
Ingredient and cataylst (U.S. 1430767) in making—
Coal briquets
Process material (U.S. 1343100) in—
Coal distillation process

Dye

In color making
Process material (U.S. 1471150) in making—
Dyestuff

Electrical

Process material in making—
Arc-lamp electrodes (U.S. 1240628)
Cathodes for radio tubes (U.S. 1419530)
Electric insulations (U.S. 1131578)

Explosives

Ingredient of—
Incendiary composition (U.S.1308463)
Matchhead composition (U.S. 1360282 and 1360283)
Pyrotechnic composition (U.S 1423264)

Fats and Oils

Precipitant (U.S. 1416284) for—
Sulphonated oleic acid compounds
Preventer (Brit. 410834) of—
Discoloration of fats on exposure to light and air
Process material in making—
Candles (U.S. 1248402)
Catalysts for hydrogenation processes (U.S. 1152765)
Fats (U.S. 1219485 and 1219486)
Fatty acids (U.S. 1219485, 1219486, and 1248402)
Glycerin (U.S. 1219485, 1219486, and 1248402)
Oils (U.S. 1161481, 1219485, and 1219486)
Process material (French 681274) in—
Refining olive oil

Firefighting

Fireproofing agent (U.S. 1346287) for—
Shingles Wood

Glass

Conferrer of—
Better resistance of smalt to chemical attack
Greater brilliancy than lime alone
Higher refractive index
Improved brilliancy and intensity of smalt
Improved mechanical properties of smalt
Lower fusion temperatures of smalt
Ingredient of—
Glass batches of various sorts, such as optical glass, pressed ware, blown ware, translucent glass, and the like
Miscellaneous patented glass compositions (U.S. 1192048, 1327569, 1403752, and 1415980)
Starting point (French 751524) in making—
Barium metaphosphate glass claimed to be very permeable to ultraviolet rays

Ink

Process material (U.S. 1131578) in making—
Lithographic inks
Stabilizing agent in—
Preventing tarnishing of gilt inks by chemical content of paper

Insecticide

Toxic agent in—
Insecticidal compositions (U.S. 1276509, 1460012, and reissue 14568; Brit. 404287)
Insecticidal compositions for control of Mexican bean beetle

Mechanical

Precipitant for—
Soluble sulphates in treatment of—
Boiler feed water
Cooling water
Make-up water

(To be continued)

4-Chlor-4′-methoxy-7:8-benzoquinolin

Pharmaceutical

Claimed (Brit. 481874) as—
Colorless agent useful in destroying blood parasites (malaria), amebae, and worm infections

Dodecylbenzylmethyl-sulphonium Methyl-sulphate

Disinfectant

Bactericide (U.S. 2155504) for—
Coli bacilli (1:1000)
Diphtheria bacilli (1:10,000)
Staphlococci (1:10,000)
Typhus bacilli (1:1000)

Kappagammahydroxy-propylundecoic Acid

Perfume

Starting point (Brit. 440416, 452242, and 452272) in making—
Lactones having strong musklike odors

Lead Parabenzamido-benzoate

Rayon

Delustring agent (U.S. 2069773 and 2069774) for—
Cuprammonium products
Nitrocellulose products
Viscose products

Methyl Chloroformate

Chemical

Starting point in making—
Dimethyl sulphate, with the aid of methyl sulphuric acid
Methyl chlorosulphonate, with the aid of chlorosulphonic acid
Methyl cyanoformate, with the aid of methanol and an alkali cyanide

Insecticide

Ingredient of—
Insecticidal preparations
Starting point in making—
Compositions with methyl cyanoformate
Compositions with liquid hydrocyanic acid and brominated organic compounds

Military

As a miliary poison gas (lachrymator)
Ingredient of—
Military poison gas mixtures

4-Nitro-1-aminoanthraquinone-2-carboxyl Chloride

Dye

Reactant in making—
Synthetic dyestuffs
Starting point (Brit. 488863) in making—
Red dyestuffs for cellulose esters and ethers

Phenylheptadecyl Ketone, Tetrachlorinated

Lubricant

Claimed (Brit. 481338 and 487642) as—
Lubricant
Starting point (Brit. 481338 and 487642) in making—
Extreme pressure lubricants by admixture in equal parts with Pennsylvania bright stock

Sodium Beta-N-dodecyl-phenoxyethyl Phosphate

Adhesives

Wetting agent (Brit. 479835 and 481557) in—
Adhesive preparations

Chemical

Foaming agent (Brit. 479835 and 481557) of high power
Wetting agent (Brit. 479835 and 481557) in—
Emulsions of various chemicals
Textile lubricants

Cosmetic

Wetting agent (Brit. 479835 and 481557) in various cosmetic preparations

Disinfectant

Wetting agent (Brit. 479835 and 481557) in—
Disinfecting compositions
Germicidal compositions

Dry Cleaning

Wetting agent (Brit. 479835 and 481557) in—
Dry-cleaning solutions

Dye

Wetting agent (Brit. 479835 and 481557)

Fats, Oils, and Waxes

Wetting agent (Brit. 479835 and 481557) in—
Boring oils
Cutting oils
Drilling oils
Greasing compositions
Lubricating compositions
Sulphonated oils
Wire-drawing oils
Wax preparations

Ink

Wetting agent (Brit. 479835 and 481557) in—
Printing inks
Writing inks

Insecticide

Wetting agent (Brit. 479835 and 481557) in—
Fungicidal compositions
Horticultural sprays
Insecticidal compositions

Leather

Wetting agent (Brit. 479835 and 481557) in—
Dressing compositions
Fat-liquoring compositions
Finishing compositions
Soaking compositions
Softening compositions
Tanning compositions
Waterproofing compositions

Metallurgical

Wetting agent (Brit. 479835 and 481557) in—
Metal-plating processes

Miscellaneous

Foaming agent (Brit. 479835 and 481557) of high power
Modifier (Brit. 479835 and 481557) of—
Surface tension of liquids in various products and processes
Wetting agent (Brit. 479835 and 481557) in—
Embalming fluids
Polishing compositions for furniture, automobiles, metals, wood, glass, and other articles
Soldering fluxes
Various processes involving aqueous solutions, such as soaking, washing, impregnating, penetrating, wetting
Wallpaper removers
Waterproofing compositions

Paint and Varnish

Wetting agent (Brit. 479835 and 481557) in—
Paints, varnishes, and lacquers
Pigment manufacture

Paper

Wetting agent (Brit. 479835 and 481557) in—
Sizing compositions
Waterproofing compositions
Waxing compositions

Petroleum

Wetting agent (Brit. 479835 and 481557) in—
Cutting oils
Mineral oil compositions
Pitch compositions
Tar compositions

Photographic

Wetting agent (Brit. 479835 and 481557) in—
Blueprint processes
Photographic processes

Rubber

Wetting agent (Brit. 479835 and 481557) in—
Cements

Soap

Wetting agent (Brit. 479835 and 481557) in—
Detergent compositions
Textile soaps

Textile

Bleaching

Wetting agent (Brit. 479835 and 481557) in—
Bleaching baths

Dyeing

Wetting agent (Brit. 479835 and 481557) in—
Dye baths

Finishing

Wetting agent (Brit. 479835 and 481557) in—
Coating compositions
Scouring compositions
Sizing compositions
Washing compositions
Waterproofing compositions
Waxing compositions

Manufacturing

Wetting agent (Brit. 479835 and 481557) in—
Bowking baths
Carbonizing baths
Degreasing compositions
Degumming and boiling-off baths
Fulling baths
Kier-boiling baths
Mercerizing baths
Oiling compositions
Soaking baths
Spinning compositions

Printing

Wetting agent (Brit. 479835 and 481557) in—
Printing pastes

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Coaltar Chemicals

Buying Steady, But New Commitments on More Moderate Scale —December By-Product Coking Operations Continue Higher —Benzol Recovery During December Records Another Gain

Buying of coaltar chemicals was steady last week. New commitments were more moderate, however, bringing volume below the high levels of the fourth quarter, but making a favorable comparison with the same time a year ago. Production continued to gain on demand, and only a few materials were in a tight position. Toluol buying was still ahead of output, while certain grades of cresols and cresylic acids were tight. Production and demand for phenol were almost on an even keel. Most transactions in intermediates and acids were confined to normal channels. The call for coaltar colors was only moderate. Prices were unchanged and firm.

Production of by-product coke during December totaled 4,718,197 tons, against 4,566,573 tons in November and 3,362,845 tons in December, 1938. There were 84 plants making coke during the month, of which 79 recovered ammonia and 56 made benzol, according to the Bureau of Mines. There was a slight decline in coke stocks at by-product plants by the end of December, all of which occurred at merchant plants.

Benzol production during December, last year, was 11,536,000 gallons, against 11,230,000 gallons in the preceding month and 7,462,000 gallons in the like month a year ago. For the 12 months ended December 31, output aggregated 102,470,000 gallons, compared with 74,094,246 gallons in the preceding calendar year. Tar oil recovered during December, 1939, was estimated at 57,708,726 gallons, contrasted with 55,978,912 gallons in November and 41,109,940 gallons in December, 1938. For the calendar year ended December 31, output amounted to 526,913,467 gallons, against 390,089,654 gallons in the preceding year. Light oil output totaled 19,069,413 gallons during December, 1939, compared with 18,465,938 gallons in November and 13,581,064 gallons in the like month a year ago. For the 12 months ended December 31, production aggregated 173,814,352 gallons, against 128,679,433 gallons in the preceding 12-month period.

Price Changes

Advanced
None
Reduced
None

Comparative Values

Index numbers compiled from twenty typical coaltar products on the basis of 100 for August 1, 1914, compare as follows:—

Last week.	Prev. week.	Last month.	Last year.
127.3	127.3	127.3	125.6

Market news that may have developed after this report was sent to press will be found on page 4.

Basic Products

Benzol.—Demand steady, but volume was still tapering off from the high levels. Fair export inquiry. Prices unchanged and firm. December output totaled 11,536,000 gallons, an increase of 2.7 percent over the 11,230,000 gallons in November, and compared with 7,462,163 gallons in the like month a year ago. Production for the calendar year ended December 31 aggregated 102,470,000 gallons, against 74,094,246 gallons for the 1938 year.

Carbazole.—Interest in the market was routine. There was nothing new to report in the prices, with the tone firm.

Coaltar.—Moderate shipments against contracts provided most of the activity. Prices were firm.

Cresote Oil.—Major consumers exerted a fair interest in this direction, but improvement was looked for later, especially from the railroads. Pricewise a firm tone prevailed.

Cresols.—Some grades continued in a strong position, with sellers able to supply only regular consumer requirements. No change occurred in the quotations.

Cresylic Acid.—While a good deal of the pressure was off, supplies of certain types of acid were still well sold up. New business was less active. Offerings of imported were small and buying was light. Prices were about the same.

Naphthalene.—A good inquiry prevailed for the refined, with shipments fairly steady against contracts. Dealings in the crude were routine and prices firm. Little activity developed in the imported crude, with prices firm.

Phenol.—Demand kept pace with production, and the market fully retained its strong position. There was little inquiry for export, and offerings were negligible.

Pitch, Coaltar.—Trading continued routine. Prices were without alteration.

Pyridin.—Production was well absorbed, with shipments against contracts steady. Pricewise a firm tone predominated.

Tar Acid Oils.—The market lacked any new developments, with dealings along normal seasonal lines. Prices were unchanged.

Toluol.—Market lacked much change; demand was more than sufficient to absorb available quanities, although sellers were gradually catching up on back orders. Export interest still active.

Xylol.—Firmness characterized the trading, and shipments were steady against contracts.

Chicago Coaltar Bases

Easing off of the rate of steel mill operations is expected to result in some diminution in the supply of coaltar bases. Benzol demand remains good. Other products are holding their own. Ruling prices exclusive of tax are:—Benzol, 90 percent, 16c. to 17c. per gallon; motor benzol, 11c. to 11½c.; toluol, 25c.; 10-degree xylol, 30c.; solvent naphtha, 27c.; cresote oil, grade 1, 13½c. to 14c.

Coaltar Acids

Anthranilic.—Trading confined to routine requirements. Prices without change.

Benzoic.—Moderate movement of technical. Quotations firm.

Broenner's.—Usual consumers make necessary withdrawals. No change in the prices.

Cleve's.—Shipments steady to regular consuming channels. Pricewise firm tone governed dealings.

Fumaric.—The call for replacements was steady, and prices continued firm.

H.—Dealings were strictly routine. Prices rule firm.

Laurent's.—Business lacked any new feature, and demand was only fair. Prices were unchanged.

Current prices on coaltar products are given in the alphabetical list of prices beginning on page 7

Maleic.—Shipments were moderately active. No change was disclosed in the quotations.

Picric.—Strong price tone prevailed. Regular consumers supplied a steady interest.

Succinic.—Spot and contract withdrawals only fair. Prices rule firm.

Sulphanilic.—Demand for technical was fairly steady. No change was uncovered in the prices.

Tobias.—A steady to firm price tone governed the transactions. Most commitments were limited to nearby needs.

Other Intermediates

Alphanaphthol. — Demand steady. Prices without alteration.

Alphanaphthylamine. — Quotations firm. Business moderate.

Anilin.—Interest steady for moderate quantities as a rule. Firm price tone.

Anthracene.—Movement fair to regular consumers. Prices without change.

Anthraquinone.—Prices hold firm. Demand held to nearby needs.

Benzaldehyde.—Call for technical fairly steady. Prices firm.

Benzidin Base.—Spot and contract shipments moderate. Prices without change.

Betanaphthol. — Quotations remain firm and unchanged. Business confined to moderate quantities.

Betanaphthylamine.—Trading failed to broaden, but interest was sufficient to keeep prices firm.

Diethylanilin. — Shipments were limited to nearby needs. Prices firm.

Dimethylanilin. — Withdrawals against contracts steady. Prices well sustained.

Dinitrobenzene. — Quotations unchanged and firm. Trading moderately active.

Dinitrochlorobenzene. — Shipments remain steady. No changes occurred in the prices.

Dinitronaphthalene. — Transactions moderate, and prices hold firm.

Dinitrophenol.—Inquiry fairly active, and buying steady. Prices were unchanged.

—Continued on page 36

Chemical Industry Linked With Charcoal Project

—Continued from page 3

of coking coal necessary for ordinary blast-furnace operations, but the government officials feel that this obstacle can be overcome by the use of charcoal coke produced by a newly patented process. The Forest Service, the Bureau of Mines, and other Federal agencies are studying the process, and one of the country's outstanding experts on steel production believes it to be exceedingly promising.

This new charcoal process would utilize the enormous quantities of sawdust and other mill-waste produced by the Northwest lumber mills, and there probably would be some production of wood chemicals such as pine oil, methanol, acetic acid, and acetate of lime, although the yield of the Western softwoods probably would not be as great as that of Southern pine and Midwestern hardwoods.

The new wood coke process was patented in the United States December 26, 1939, by Dr. Stevan Ruzicka, formerly of Beograd, Yugoslavia, and Dusseldorf, Germany, but now in the United States with the intention of becoming an American citizen. He is a brother of Prof. Leopold Ruzicka who was awarded the 1939 Nobel prize in science. He began his experiments at the request of the Yugoslav government but transferred his operations to this country because of the large supply of waste wood available.

On the same date Dr. Ruzicka obtained a second patent on a process for making a quick-drying alumina cement from a blast-furnace operation utilizing bauxite, iron ore, and his wood coke. The War Department and other government agencies are much interested in this phase of the process also because of the advantages of a cement which will set in a few hours.

A West Coast steel industry is greatly desired by the administration for many reasons. The army and the navy favor it for defense purposes. The Bureau of Mines seeks development of Northwestern mineral deposits. Economists feel that the establishment of a West Coast price-basing point for steel would have a salutory effect on prices in that area. The Department of State foresees a new market for Chilean iron ore now going through the Panama canal to Sparrows Point, Md. Such a plant would absorb most of the scrap iron available on the West Coast and now being exported to Japan in large quantities. The Forest Service hopes that the wood coke process will absorb much wood now being wasted in that region. The Department of the Interior is seeking new industrial outlets for electric power. There is no present thought that the government will build such a plant; although the Reconstruction Finance Corporation might supply a major part of the capital. Two large steel companies are said to be studying the project seriously.

Properties of Wood Coke

The Ruzicka wood coke patent covers a process for utilizing powdered charcoal, mixing it with a binder to form briquets, and coking them in a cokeoven to produce a coke which is claimed to be superior to coal coke for metallurgical and other fuel purposes. Because the charcoal is powdered it could be made of sawdust and there would be no waste of the fine material as is the case in the production of ordinary wood charcoal for fuel use. The binder may be the wood pitch or tar produced in the initial charcoal process. It is claimed that the process may be continuous from the raw wood to the finished briquets.

The resulting briquets are claimed to be 95 percent pure carbon, with little ash or foreign substances which might interfere with metallurgical uses, and to be strong enough structurally to withstand the weight of a full blast-furnace charge; whereas, ordinary charcoal can be used only in a very small blast-furnace. Because of the purity of the coke, it is claimed that less fluxing material is needed than when iron is produced with the use of coal coke.

Through the use of electric furnaces and wood coke blast-furnaces, or a combination of both, it would be possible to produce charcoal iron and Swedish-type steel, both of which sell at a premium for special uses. The chief West Coast market for iron and steel products, however, is at present, for concrete reinforcing bars, pipe, structural shapes, and tinplate for the huge Pacific Coast and Hawaiian canning industries.

Development of a steel industry in the Columbia river basin would call for the exploitation of local deposits of such fluxing and refractory materials as limestone, magnesite, brucite, fireclays, olivine, silica, pinite, and chromite, and government engineers have studied the availability and suitability of all such deposits.

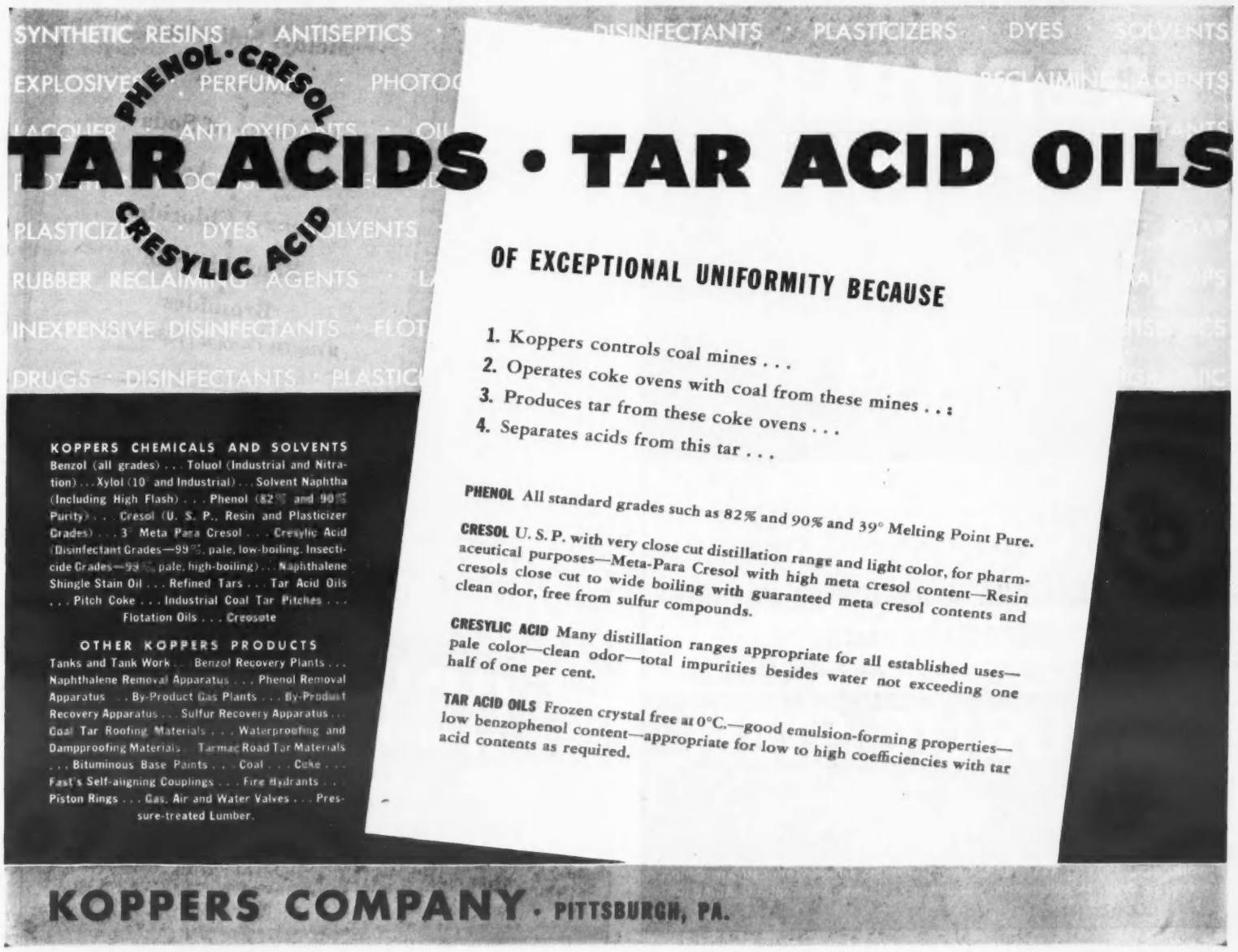
Fulton Anilin Formed

Fulton Anilin Corporation, Woonsocket, R. I., has been formed to manufacture dyestuffs and chemicals. The new company, headed by F. L. Bume, will absorb the personnel of the former Fulton Dye & Import Company, including the maintenance of branch offices in this city, Boston, Charlotte, N. C. Other officers of the company are:—Vice-president, D. J. Grazianno, and secretary-treasurer, N. S. Sobin.

St. Denis-Kuhlmann-St. Clair Dyestuff Agency Formed Here

Saint-Denis, Kuhlmann, Saint-Clair Dyestuff Corporation has been formed, with offices and laboratory in 55 Vandam street, this city, to act as direct selling agents in this country for the French producers of those products. Officers of the company are:—President-treasurer, H. P. Rossiger; vice-president, Dr. A. Lang, and secretary, C. G. Becket.

General Aniline Works division of the General Aniline & Film Corporation, this city, plans to build a storage and laboratory addition to one of its present buildings in Linden, N. J., at a cost of $48,000.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TAR ACIDS • TAR ACID OILS
OF EXCEPTIONAL UNIFORMITY BECAUSE
1. Koppers controls coal mines . . .
2. Operates coke ovens with coal from these mines . . :
3. Produces tar from these coke ovens . . .
4. Separates acids from this tar . . .
PHENOL All standard grades such as 82% and 90% and 39° Melting Point Pure.
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KOPPERS COMPANY · PITTSBURGH, PA.

Coaltar Chemicals

Other Intermediates

—*Continued from page* 35

Dinitrotoluene.—Market retained its firm position. Dealings were continuing at a satisfactory pace.

G. Salt.—Business routine. Prices unchanged and firm.

Metanitroparatoluidin.—Prices firm. Small quantities made up the call.

Metaphenylenediamine.—Little feature to trading. Prices unchanged.

Metatoluyenediamine.—Market position strong, and business steady.

Monochlorobenzene. — Buying moderately active. Prices the same.

Nitrobenzene.—Firm price tone remained in evidence. Business fairly steady.

Nitronaphthalene.—Usual consumers supplied a steady call. No change occurred in the quotations.

Orthochloroanilin. — Transactions limited to necessary replacements. Prices rule firm.

Orthochlorophenol.—No change in the prices, with interest moderate.

Orthodichlorobenzene. — Shipments moved at a fair pace. Prices were unaltered.

Orthonitroanilin.—Market continued firm, and buying was steady.

Orthonitrotoluene. — Regular consumers made moderate withdrawals. Quotations without change.

Parachlorophenol. — Prices were firm. Demand remained satisfactory.

Paranitroanilin.—Market lost none of its firmness, and buying restricted to normal levels.

Paratoluidin.—Firmness characterized the trading, and shipments were steady.

Phthalic Anhydride. — Large consumers made steady commitments to keep the market in a firm position. Prices without change.

Thiocarbanilide. — Quotations were firm. Dealings moderately active.

Xylidin, Mixed. — Buying routine. Prices the same, and firm.

Coaltar Colors

Consumers continued to hold commitments to narrow margins in the market for coaltar colors last week. There was little indication of any broadening in the demand, with most factors content to make replacements when needs became urgent. Despite the leveling off in buying, the market lost none of its firmness.

Imports of coaltar dyes into Cuba during 1938 totaled 90,460 kilos, against 90,793 kilos in 1937. Of the total the United States supplied 48,914 kilos during 1938, compared with 47,541 kilos in 1937.

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Dyestuffs, Textile and Leather Chemicals

Buying Lacks Improvement—Bichromate Position Strong—J2 Myrobalans Lower—African Wattle Barks Easier—Egg Products Steady — Dyestuffs Continue Quiet

Business in the market for dyestuffs, textile and leather chemicals lacked any improvement last week. Buying followed the trend prevalent for the past several weeks, namely a disposition on the part of consumers to limit commitments until inventories accumulated during the latter part of last year were liquidated. In such cases where replacements were necessary, purchases were made on a conservative basis. Operations in most consuming lines were at a comparatively good level, and sellers felt that broader buying would soon materialize. The market lacked any important prices changes, and a steady to firm tone remained in evidence.

Bichromate shipments moved steadily against contracts, with producers offering little in the spot market or for export. While some inquiries were still on the market, resellers were having difficulty in obtaining supplies for export purposes. Potash and soda prussiates were unchanged, and trading was routine. Antimony salts were strictly nominal. Zinc dust was steady.

Tanning materials were generally quiet. Most consumers bought heavily previously, and were marking time before making additional replacements. J2 myrobalans and wattle bark were slightly easier. Corn derivatives were nominal. Egg products were unchanged and quiet. No particular activity developed in natural dyestuffs.

Price Changes

Advanced

None

Reduced

Myrobalans, J2, $2.50 per ton
Wattle bark, E. African, 50c. per ton
S. African, 25c. per ton

Comparative Values

Index numbers compiled from nineteen typical dyestuffs on the basis of 100 for August 1, 1914, compare as follows:—

Last week.	Prev. week.	Last month.	Last year.
147.3	147.4	148.5	147.0

Market news that may have developed after this report was sent to press will be found on page 4.

Chemicals

Alumina Acetate. — Consumers entered market for necessary replacements. Prices were the same, and the tone of the market was firm.

Alumina Chloride. — Call from the textile trade was only moderate. Pricewise a steady to firm price tone prevailed.

Antimony Salt.—Prices were nominal. Demand was dull, and shipments involved only small quantities.

Chrome Acetate.—There was little broadening in the demand, but the market fully retained its firm position.

Potash Bichromate. — Shipments moved steadily against contracts. Sellers offered little for spot and export. Prices continued very firm.

Potash Prussiate.—Dealings were of a routine character. Prices for the red were nominal, and a firm tone prevailed for the yellow material.

Soda Bichromate. — Withdrawals were moderately active. Demand was adequate to keep market in strong position. Less activity developed in the resale market for export. Prices very firm.

Soda Prussiate.—Demand was spotty in this direction. Prices were maintained at previous levels.

Sulphonated Oils.—A steady to firm price tone predominated. Most consumers were following a conservative purchasing policy.

Zinc Dust.—Quotations were firm at the levels established recently. Shipments moved to various consuming channels in moderate quantities.

Dyestuffs

Annatto.—Demand not active, shipments made up of small quantities. Prices were unchanged and firm.

Cochineal.—Firm prices prevailed, and supplies of the grey and Teneriffe silver were limited. Most transactions restricted to usual consumers.

Fustic.—Withdrawals by the textile and leather trades confined to nearby needs. Prices were well sustained.

Hypernic. — Demand failed to broaden, and conservative buying was still the rule. Prices were unaltered and firm.

Indigo.—Quiet conditions prevailed in the market for the natural material. Prices were unchanged.

Logwood.—Usual consumers entered the market for necessary replacement. Prices were firm.

Turmeric. — Prices were strictly nominal. Demand was dull, but offerings were negligible.

Sizing Materials

Albumen, Blood.—Usual consumers supplied a steady call, and market position remained firm.

Albumen, Egg. — Quiet. Recent strengthening in shell egg market was a factor in keeping prices steady.

Corn Sugar.—Prices were the same and about steady. Demand was only fair.

Dextrin Corn. — No broadening in demand. Prices were nominal.

Dextrin Potato.—Imported material held at the 7¾c. per pound level. Buying was not very active.

Egg Yolk. — Buying dull. Prices were the same, and a steady price tone remained in evidence.

Sago Flour.—Consumers were more cautious in making replacements. Prices were in conformity with those prevailing previously.

Starch, Corn.—Shipments moved at a moderate pace, with no evidence of broadening. Prices were nominal.

Starch Wheat. — A steady to firm price tone prevailed. Buying was held to nearby needs.

Tapioca Flour.—Interest in the market was along conservative lines. No change was disclosed in the quotations.

Tanning Materials

Chestnut Extract. — Moderate demand. Prices unchanged and firm.

Cutch.—Prices hold firm. Shipments against contract steady.

Gambier.—Quotations strictly nominal. Little new buying interest.

Hemlock Extract.—Demand more in line with actual requirements. Prices rule firm.

Mangrove Bark.—Market lacked any new feature. Prices unaltered.

Myrobalans.—Price J2 declined $2.50 to $25 per ton, no further change was reported for the J1. Business dull.

Oakbark Extract. — Business failed to broaden, however, prices were the same, and market tone firm.

Quebracho. — Consumers entered market on more conservative scale. Pricewise a steady to firm tone governed the dealings.

Quercitron.—Prices were firm. Demand was along routine lines.

Spruce Extract. — Shipments were more in line with production needs. Prices firm.

Sumac. — Prices retained at levels established preceding period. Buying dull.

Valonia. — Quiet. Prices for the beards and cups unchanged.

Wattle Bark.—East African off 50c. to $37.50 and South African 25c. to $38.75. Demand quiet.

Current prices on dyestuffs and tanstuffs are given in the alphabetical list of prices beginning on page 7

Spinning Wheel History Shown

The evolution of the spinning wheel is the theme of the subject matter in the December *Ciba Review*, published by the Ciba Company, dyestuffs manufacturer. Starting with the spindle and distaff, which were forerunners of the spinning wheel, the booklet discusses and illustrates the types of spinning wheels, until the time of the twisting mill, which was the first step towards mechanized spinning. Copies of the magazine may be secured by addressing the Ciba Company, 627 Greenwich street, New York, mentioning the REPORTER.

DuPont Offers New Color

A new chrome color, "Pontachrome" orange RL, is announced by E. I. du Pont de Nemours & Co., Wilmington, Del. It possesses very good fastness to light, and for that reason will be of primary interest as a shading color to produce mode shades on automotive upholstery, uniform cloth and other fabrics requiring the best possible light fastness, the company says. The color is very fast to carbonizing. Steaming, perspiration, washing and fulling have very little, if any, effect upon the shade, according to the company.

Textile Chemists Hear Bonnet Discuss 'Vinyon'

The chemical composition, physical properties, and industrial applications of "Vinyon" were described by Dr. F. Bonnet, jr., before the New York section of the American Association of Textile Chemists and Colorists, January 26, in the Swiss Chalet, Rochelle Park, N. J. Dr. Bonnet is director of the textile research and standards laboratory, of the American Viscose Company, Marcus Hook, Pa., manufacturer of "Vinyon."

The new synthetic material was described by Dr. Bonnet as a copolymer of vinyl chloride and vinyl acetate, taking the form of a long, straight chain polymer joined at the double bond of the components. The vinyl acetate was said to join in the chain and internally plasticize the compound. The new synthetic may be dyed, he stated, by regular processes so long as the temperature is kept below 150 degrees Fahrenheit, or by the use of oil or certain hydrocarbon baths and suitable dyes dissolved therein.

Before the address by Dr. Bonnet, the section re-elected as councilors in the national organization Henry F. Herrmann, of the General Dyestuff Corporation; George L. Baxter, of the Bradford Dyeing Association; and Dr. Harold W. Stiegler.

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N.Y. City Sales Tax Affects Incoming Goods

—Continued from page 3

the way for greater application of State and local sales taxes to mail-order purchases and other sales transactions involving the use of interstate commerce. Chief Justice Hughes, joined by Justices McReynolds and Roberts, dissented. Both majority and minority opinions are very lengthy and replete with references to previous court decisions involving local taxes and interstate commerce.

The gist of the majority decision is that the New York city tax is not discriminatory and places no more of a burden on interstate commerce than on local trade and does not constitute regulation of commerce which the constitution leaves to Congress. Excerpts from the majority opinion follow:—

It [the New York City sales tax] does not aim at or discriminate against interstate commerce. It is laid upon every purchaser, within the State, of goods for consumption, regardless of whether they have been transported in interstate commerce. Its only relation to the commerce arises from the fact that immediately preceding transfer of possession to the purchaser within the State, which is the taxable event, regardless of the time and place of passing title, the merchandise has been transported in interstate commerce and brought to its journey's end. Such a tax has no different effect upon interstate commerce than a tax on the "use" of property which has just been moved in interstate commerce.

We can find no adequate basis for distinguishing the present tax laid on the sale or purchase of goods upon their arrival at destination at the end of an interstate journey from the tax which may be laid in like fashion on the property itself.

We are unable to say that the present tax, laid generally upon all sales to consumers within the State, subjects the commerce involved where the goods sold are brought from other States, to any greater burden or affects it more, in any economic or practical way, whether the purchase order or contract precedes or follows the interstate shipment. Since the tax applies only if a sale is made, and in either case the object of interstate shipment is a sale at destination, the deterrent effect of the tax would seem to be the same on both.

Clean Up Campaign Plans Discussed by R.W. Emerson

Ralph W. Emerson, executive secretary of the National Clean Up & Paint Up Campaign Bureau, Washington, D. C., addressed a dinner meeting of the manufacturers and distributors division of the Paint and Oil Club of New England in Boston, at the Boston City Club, January 30, as a preliminary to the planning of the 1940 campaign activities in Boston and New England. The meeting was arranged by Franklin J. Lane, president of the Paint and Oil Club of New England, and Sumner B. Woodbridge, chairman of the manufacturers and distributors division.

Breathwaite's, Inc., has taken out a Maryland charter and is authorized to manufacture, distribute and deal in linseed oil, turpentines and all other vehicles for paints, varnishes and lacquers. The company has a capital of 1,000 shares of a par value of $100 a share. The principal office is to be at 1941 Baltimore Trust building, Baltimore.

Synthetic Resins

—Continued from page 27

Nevillite, "V," water-white, 100-lb. dms., works..lb.	1.25	-	—
No. 1, water-white, 100-lb. dms., works..lb.	.65	-	—
No. 2, prime-white, 100-lb. dms., works..lb.	.55	-	—
No. 3, very light straw, 100-lb. dms., works..lb.	.50	-	—
No. 4, very light straw, 100-lb. dms., works..lb.	.42	-	—
oil, dms., works.....lb.	1.40	-	—
465, 110-125°C., dms., gross weight, works..lb.	.03	-	—
Nevinol, dms., works.....lb.	.13	-	—
oil, heavy, rfd., dms., works, lb.	.10	-	—
Nuba, 1, 80-95°C., dms., gross weight, works..lb.	.0265-		—
2, 100-125°C., dms., gross weight, works..lb.	.0265-		—
3x, 135-150°C., dms., gross weight, works..lb.	.04	-	—

Nuba resin prices on contracts terminating December, 1940, are ¼c. per pound lower; Los Angeles and San Francisco ex whse., 3c. per pound extra.

Nuodex drier, cobalt, 6%, 400-lb. pkgs..lb.	.25	-	—
9% (printing ink), 100-lb. pkgs..lb.	.36½-		—
11½%, 100-lb. pkgs.....lb.	.45½-		—
cobalt acetate, 100-lb. pkgs., lb.	.71	-	—
iron, 6%, 400-lb. pkgs.....lb.	.13	-	—
11%, 100-lb. pkgs.....lb.	.22½-		—
lead, 16%, 450-lb. pkgs.....lb.	.09½-		.10½
24%, 450-lb. pkgs.....lb.	.12	-	.13
32%, 450-lb. pkgs.....lb.	.15½-		—
33% (printing ink), 100-lb. pkgs..lb.	.16	-	—
34%, 100-lb. pkgs.....lb.	.16	-	—
40%, 100-lb. pkgs.....lb.	.19	-	—
lead 28%, cobalt 2.8%, 150-lb. pkgs..lb.	.24½-		—
lead 28%, manganese 2.8%, 150-lb. pkgs..lb.	.18¾-		—
manganese, 6%, 400-lb. pkgs., lb.	.12½-		.13½
9% (printing ink), 100-lb. pkgs..lb.	.20	-	—
10½%, 100-lb. pkgs.....lb.	.21	-	—
zinc, 8%, 400-lb. pkgs.....lb.	.13½-		—
10%, 500-lb. pkgs.....lb.	.16½-		—
14%, 100-lb. pkgs.....lb.	.22½-		—
16%, 100-lb. pkgs.....lb.	.25¾-		—
Nuodite, cobalt, 18%, 100-lb. pkgs..lb.	.61	-	—
lead, 64%, 100-lb. pkgs.....lb.	.23	-	—
manganese, 24%, 100-lb. pkgs., lb.	.30	-	—

All prices are f.o.b. customers' plants, East of Denver.

P

Paradene, No. 1, 75-99°C., dms., gross wt., works..lb.	.04½-		—
2, 100-124°C., dms., gross wt., works..lb.	.04½-		—

Paradene prices on contract, terminating Dec., 1940, are ¼c. lower; prices are freight equalized with Philadelphia, Pa.

Phenester, color 3½-5, dms., works..lb.	.17	-	—
P.H.O., dms., works.....lb.	.19	-	—
Pliolite, milled, dms., 1 ton, works..lb.	.75	-	—
smaller lots, works.....lb.	.79	-	—
unmilled, dms., 1 ton, works.lb.	.66	-	—
smaller lots, works.....lb.	.69	-	—

R

Resinous oil, No. XI, dms., works..lb.	.019	-	—

S

Super-beckacite, pure phenolic, 1001, dms., 1-9, frt. pd..lb.	.31	-	—
1003, dms., 1-9, frt. pd....lb.	.30	-	—
2000, dms., 1-9, frt. pd....lb.	.26	-	—
2050, dms., 1-9, frt. pd....lb.	.23	-	—
2667, dms., 1-9, frt. pd....lb.	.21	-	—
2668, dms., 1-9, frt. pd.....lb.	.15	-	—
3000, dms., 1-9, frt. pd....lb.	.48	-	—
3005, dms., 1-9, frt. pd....lb.	.45	-	—

Super-beckacite prices in lots of 10 dms. or more are ½c. per lb. less than above; in carloads, 1c. per lb. less, with exception of 3000 and 3005 where 10 dms. are 1½c. less and carloads 3c.; prices subject same geographical differentials as beckacite.

Surfex, bgs., c.l., frt. alld. up to 25c. per 100 lbs..ton.	35.00	-	—
BB, bgs., c.l., frt. alld. up to 25c. per 100 lbs..ton.	40.00	-	—

V

Vinylite, AYAA, AYAF, AYAT, paper bags, c.l., (30,000 lbs.), f.o.b. cars, South Charleston, W. Va., freight paid to destination E. of Mississippi river.....lb.	.40	-	—
2,000 to 9,999 lbs., cns., same basis..lb.	.43	-	—
200 to 1,999 lbs., cns., same basis..lb.	.45	-	—
1 to 199 lbs., cns., same basis..lb.	.60	-	—
AYAB, cns., 200 to 1,999 lbs., same basis..lb.	.52	-	—
1 to 199 lbs., same basis..lb.	.67	-	—
AYAW, cns., 200 to 1,999 lbs., same basis..lb.	.52	-	—
1 to 199 lbs., same basis..lb.	.67	-	—
QYNA, paper bags, c.l. (30,000 lbs.), f.o.b. cars South Charleston, W. Va..lb.	.48	-	—
10,000 to 29,999 lbs., cns., same basis..lb.	.50	-	—
2,000 to 9,999 lbs., cns., same basis..lb.	.52½-		—
200 to 1,999 lbs., cns., same basis..lb.	.55	-	—
1 to 199 lbs., cns., same basis..lb.	.65	-	—
VYHF, VYLF, VYNW, VYRR, paper bags, c.l. (30,000 lbs.), same basis..lb.	.48	-	—
10,000 to 29,999 lbs., cns., same basis..lb.	.50	-	—
2,000 to 9,999 lbs., cns., same basis..lb.	.52½-		—
200 to 1,999 lbs., cns., same basis..lb.	.55	-	—
1 to 199 lbs., cns., same basis..lb.	.65	-	—
VYHH, paper bags, c.l. (30,000 lbs.), same basis..lb.	.52	-	—
10,000 to 29,999 lbs., cns., same basis..lb.	.54	-	—
2,000 to 9,999 lbs., cns., same basis..lb.	.55½-		—
200 to 1,999 lbs., cns., same basis..lb.	.57	-	—
1 to 199 lbs., cns., same basis..lb.	.67	-	—
VYNS, paper bags, c.l. (30,000 lbs.), same basis..lb.	.68	-	—
10,000 to 29,999 lbs., cns., same basis..lb.	.70	-	—
2,000 to 9,999 lbs., cns., same basis..lb.	.72½-		—
200 to 1,999 lbs., cns., same basis..lb.	.75	-	—
1 to 199 lbs., cns., same basis..lb.	.85	-	—

LET'S BE *practical* ABOUT

Hiding Power

Examine critically any hiding power figures that tell you Pigment "X" hides so many square feet per pound more than Pigment "Y". Don't you really want to know: "How much does it cost to cover 1000 square feet of surface using Pigment "X" or "Y" **in my paint formula?"**

Taking this practical view, you'll discover some surprising facts about hiding power. In tests on 95 **commercial** flat wall paints the cost of hiding 1000 square feet with a frequently used type of pigment varied from approximately 75 cents to $1.70, depending upon the vehicle, thinner or pigment non-volatile volume ratio with which it was employed.

Then consider these important facts: In these same tests on 95 commercial flat wall paints, the pigment cost of hiding 1000 square feet with lithopone ranged from approximately 65 cents to $1.50. The combination of high hiding per dollar and desirable paint-making properties makes **Albalith lithopone your best buy.**

For more of this story on hiding power, write for a copy of "A Practical Hiding Power Comparison".

THE NEW JERSEY ZINC COMPANY

160 Front Street • New York, N. Y.

New Jersey Zinc

Paint, Varnish, Lacquer Materials

Pig Lead and Lead Oxides Reduced — By-Product Blanc Fixe Advanced — All Grades of Casein Down—Naval Stores Firm, Receipts Small

Price movements featured the market for raw paint materials last week with reductions in pig lead and lead oxides being the most outstanding changes. This was the first change to be made in the lead price since September 6 of last year and, when the price went down last Monday, quotations on red lead, litharge and orange mineral were automatically lowered.

A tight market situation continued to prevail in blanc fixe and the less car lot price of the dry, by-product material was advanced. Other prices were strong. Casein continued to show weakness and domestic and both Argentine and New Zealand products were offered at lower figures. The weakness in the market is attributed to slackened demand, coupled with large supplies of Argentine material. Fifteen grades of copal gum were reduced. Quicksilver vermilion prices were very strong due to the higher price of the metal, but late last week prominent sellers of the color were adhering to previous schedules. Rosin and turpentine were quiet in Southern and local markets. The tone continued firm, however, as receipts and offerings remained small. A further advance occurred in turpentine. The statistical position of the product continued to strengthen. Weather conditions were still unfavorable for production and marketing, abnormally low temperatures prevailing over the whole South. Shellac was lower in Calcutta and spot quotations on T.N. and superfine were reduced. The market firmed up at the declines at both points.

Price Changes

Advanced

Blanc fixe, dry, by-product, l.c.l., $5 per ton
Rosin, gum, medium, 5c. per 280 lbs.
Turpentine, 1¼c. to 4c. per gal.

Reduced

Casein, dom., 1c. per lb.
Argentine, ½c. per lb.
New Zealand, 1¼c. per lb.
Gum, copal, c.l., ⅜c. to 1⅝c. per lb.
Lead, pig, ¼c. per lb.
red, dry, ¼c. per lb.
Litharge, comm'l, ¼c. per lb.
Orange mineral, ¼c. per lb.
Shellac, T.N., 2c. per lb.
superfine, 2c. per lb.

Comparative Values

Index numbers compiled from eleven typical paint and varnish materials on the basis of 100 for August 1, 1914, compare as follows:—

Last week.	Prev. week.	Last month.	Last year.
126.2	**126.2**	**126.3**	**131.7**

Market news that may have developed after this report was sent to press will be found on page 4.

Metallic Lead and Zinc

Leading producers of pig lead on last Monday reduced prices by ¼c. per pound for both New York and East St. Louis delivery. The metal is now quoted at 5.25c. to 5.30c. per pound in New York and at 5.10c. per pound, basis East St. Louis. This is the first change to be made in lead since September 6, 1939, when the price was increased from 5.25c. to 5.50c. per pound. The reduction followed development of a softer tone in the copper price structure. Slab zinc deliveries were at about the same level as the previous week, and the price was firm at 5.50c. per pound, basis East. St. Louis, and 5.90c., New York.

Lead.—Prevailing spot prices at New York, East St. Louis and London for the period from January 27 to February 2, inclusive, were as follows:—

	Pigs		
	Per pound		Spot. London. Per ton
	New York.	E. St. Louis.	£ s. d.
Saturday	$0.0550@.0555	$0.0535	..* .. ..
Monday	.0525@.0530	.0510	.. .. ..
Tuesday	.0525@.0530	.0510	.. .. ..
Wedn'sd'y	.0525@.0530	.0510	.. .. ..
Thursday	.0525@.0530	.0510	.. .. ..
Friday	.0525@.0530	.0510	.. .. ..

* London exchange closed.

Zinc.—Prevailing spot prices at New York, East St. Louis and London for the period from January 27 to February 2, inclusive, were as follows:—

	Slabs		
	Per pound		Spot. London. Per ton
	New York.	E. St. Louis.	£ s. d.
Saturday	$0.0590	$0.0550	..* .. ..
Monday	.0590	.0550	.. .. ..
Tuesday	.0590	.0550	.. .. ..
Wednesday	.0590	.0550	.. .. ..
Thursday	.0590	.0550	.. .. ..
Friday	.0590	.0550	.. .. ..

* London exchange closed.

Pigments

Antimony White. — Demand light with price nominal at 15½c. per pound, f.o.b. Texas.

Litharge.—This pigment was reduced ¼c. per pound. New quotations for delivery in New York and vicinity were 6¾c. per pound for 20 tons or more; 7¼c. for 5 to 20 tons, and 7¾c. for smaller lots.

Lithopone.—Movements in the delivery side of the market continued to be small although inquiry for the future picked up. Prices held firmly.

Orange Mineral. — Reflecting the drop in pig lead prices this material underwent a ¼c. per pound reduction last week. New quotations for New York delivery were 10¾c. per pound for 5 tons or more and 11¼c. for smaller lots.

Red Lead.—Similar to the other oxides, this pigment was lowered ¼c. per pound. The 95 percent material delivered to New York and vicinity was quoted at 7¾c. per pound for car lots; 8¼c. for five tons or more and 8¾c. for smaller lots. The 97 percent grade was listed at 8c. per pound for car lots; 8½c. for five tons or more and 9c. for smaller quantities. The 98 percent material was at 8½c. per pound for car lots; 8¾c. for five tons or more and 9½c. for smaller lots.

Titanium Pigments. — The market continued to show a bit more improvement and sales volume was at a satisfactory level for this time of year. Prices were firm.

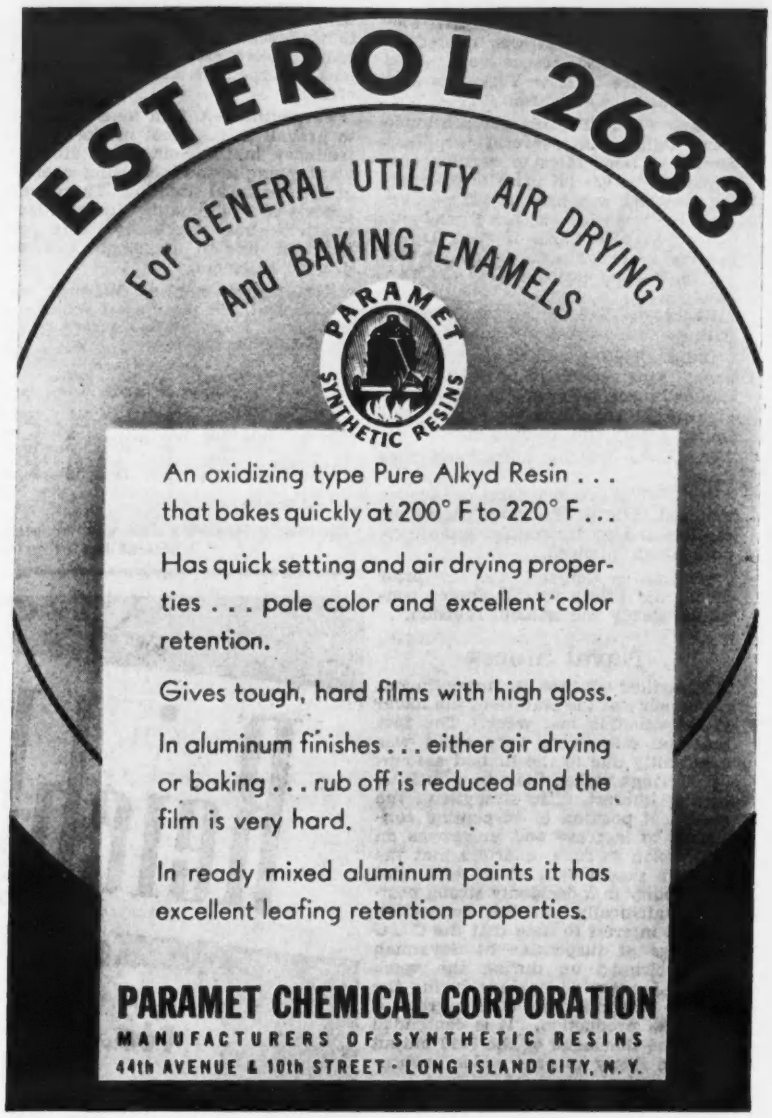
White Lead.—Trade continued along slow lines during the week with producers expecting a pick-up later this month. Prices were firm and unchanged.

Zinc Oxides. — Sales continued to hold to good levels and no evidence of a slackening was seen. Prices were firm and unchanged.

Fillers and Extenders

Barytes.—Market slightly more active with the barrel price firm at $25.15 per ton for car lots and $26.15

Current prices on paint, varnish and lacquer materials are given in the alphabetical list of prices beginning on page 7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For GENERAL UTILITY AIR DRYING And BAKING ENAMELS
PARAMET SYNTHETIC RESINS
An oxidizing type Pure Alkyd Resin . . . that bakes quickly at 200° F to 220° F . . .
Has quick setting and air drying properties . . . pale color and excellent color retention.
Gives tough, hard films with high gloss.
In aluminum finishes . . . either air drying or baking . . . rub off is reduced and the film is very hard.
In ready mixed aluminum paints it has excellent leafing retention properties.
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MANUFACTURERS OF SYNTHETIC RESINS
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A Strong Protector
of
Smoothness . . . Gloss . . .
Toughness . . .
Rough, worn surfaces and faded colors are unmistakable signs of abrasion and breakdown of the paint film. Mapico Colors provide a strong protection against these failures.
Paints formulated with Mapico Colors are smooth because these pure oxides of iron have no coarse, siliceous particles. They are glossy because they permit low pigment concentration, thereby preserving the high gloss of the vehicle. They are tough because, as inert pigments they do not react to ingredients in the vehicle. They show exceptional color retention because they are impervious to sunlight. They give exceptional resistance to abrasion because of their inherent toughness.
Are you getting this protection in your paint formulations?
MAPICO Colors
PURE OXIDES OF IRON
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Distributors
YELLOWS REDS BROWNS BLACK

for less car lots, basis St. Louis. Material in paper bags was quoted at $22.85 and $23.85, respectively. Less car lots price in New York was firm at $31.50, ex warehouse.

Blanc Fixe.—The market continued very tight with several suppliers forced to limit sales to regular customers. The car lot price of by-product material was firm at $50 per ton but the less car lot price was advanced $5 to a basis of $60. Direct process material was steady at $70 per ton for car lots and $75 to $90 for less.

Charcoal.—The market was routine with quotations firm and unchanged.

China Clay.—Inquiries continued to bring satisfaction to suppliers although there was not a noticeable pick-up in spot orders. Prices continued steady and unchanged.

Graphite.—Demand normal and price firm.

Mica.—Wet-ground, paint or lacquer material, firm at 4½c. per pound for car lots and 5c. for smaller quantities, both freight allowed.

Whiting. — Demand was at prior levels and prices for all grades continued steady and without revision.

Naval Stores

A further advance in turpentine at Savannah was the feature of the naval stores situation last week. The fact that the sales were very small was apparently due to the limited amount of offerings rather than to a lack of buying interest. The strength of the statistical position of turpentine continued to increase and there was an impression in some quarters that the current season will close with that commodity in a decidedly strong position statistically. In this connection it is of interest to note that the C C C holdings of turpentine at Savannah were cleaned up during the week ended January 26, takings during the period amounting to 4,632 barrels of the 1939 production. It is contended by some that none of the 1940 output will be likely to pass under government control on loans.

Rosin continued firm last week, although quieter conditions prevailed so far as new business was concerned. Offerings of all grades were light throughout the week, however, and the indications seemed to point to a small movement during the remainder of the season. Unsold supplies in the interior are said to be unusually light for this period and production during the remainder of the season is not expected to increase to any material extent. Weather conditions over the whole South last week continued unfavorable, temperatures at many points still being far below freezing. In such circumstances production was said to have been brought practically to a standstill and the movement from the interior to primary points much curtailed.

CCC Loan Holdings

The following table shows the stocks of rosin and turpentine held January 26 by the CCC under loans on the 1938 and 1939 crops:—

	Rosin 1938.	Rosin 1939.	Turpentine. 1939.
Savannah, bbls..	109,280	50,400	.....
drums	442	11,390	.....
Jack'ville, bbls..	179,132	115,031	25,649
drums	.....	19,303	.....
Brunswick, bbls.	94,029	87,054	22,331
drums	955	8,450	.....
Mobile, bbls.....	14,497	7,107	.....
drums	1,389	9,695	.....
Pensacola, bbls..	25,615	18,802	5,053
drums	.....	5,024	.....
Valdosta, bbls..	121,796	132,706	27,784
drums	.....	32,045	.....
Wiggins ,bbls...	.....	282	.....
drums	.....	10,078	.....
Estill, bbls.....	.....	771	.....
drums	.....	8,123	.....
Helena, bbls....	.....	53,581	23,397
drums	.....	53,827	.....

Mexican Production Low

Heavy winter rains in Mexico, together with cold weather, interfered with the production of naval stores throughout the month of December, according to a consular report from Durango. At the end of December estimates placed the total output of naval stores in the Durango section at 5,500 gallons of turpentine and 80 metric tons of rosin. This production was the lowest for any one month for several years. Sales for the month totaled 16,000 gallons of turpentine, all of which was shipped to the United States, and 100 metric tons of rosin, which was sold for domestic consumption. Stocks on hand the end of December were estimated at 9,500 gallons of turpentine and 373 metric tons of rosin.

Turpentine.—A firm tone continued to prevail in the local market as the tendency in the South was still upward owing to the increasing strength of the statistical situation. There were reports of a fair inquiry in some local quarters but purchases were apparently limited to small lots for prompt shipment.

SAVANNAH, Feb. 2.—Offerings continued light and the market retained a firm tone. Following is a record of the market for the week:—

	Cents (gal.)	Barrels Sales.	Re-ceipts.	Ship-ments.	On hand
*Saturday	...	...	...	...	.....
Monday	33½	4	4	407	20,014
Tuesday	33½	...	...	3	20,011
Wednesday..	34	3	...	35	19,976
Thursday ...	34¼	1	3	31	19,948
Friday	34½	2	74	3	20,019

* No trading.

JACKSONVILLE, Feb. 2.—The turpentine market was quiet. Following is a record of the market for the week:—

	Cents (gal.)	Barrels Sales.	Re-ceipts.	Ship-ments.	On hand
*Saturday	...	...	...	...	.....
Monday	26	...	41	306	40,532
Tuesday	26	..	...	274	40,258
Wednesday ..	26	...	17	1	40,274
Thursday ...	26	...	...	882	39,392
Friday	26	...	8	665	38,735

* No trading.

PENSACOLA, Jan. 27.—Turpentine quiet and steady. Following is a record of the market for the week:—

	Barrels Re-ceipts.	Ship-ments.	Stocks.
Monday	10	...	17,591
Tuesday	66	533	17,124
Wednesday	1	...	17,125
Thursday	40	...	17,165
Friday	19	...	17,184
Saturday	...	...	17,184

Chicago—Feb. 2

Turpentine is strong. Buyers have been more active. Ruling prices at the close of business last night were:—Five-drum lots, 40c. per gallon; five wood barrels, 45c.; single drums, 43c.; single barrels, 48c.

LONDON, Feb. 2.—Turpentine 54s. 9d. per 112 pounds. Stocks of American as follows:—

	Feb. 2.	Previous week.	Last year.
Barrels	14,959	14,661	23,976

Rosin.— The local market was rather quiet last week, such transactions as were reported being limited to comparatively small lots, with the movements of such quantities lighter than in the previous week. The tone here remained firm in company with developments in the South where receipts and offerings continued small.

PENSACOLA, Jan. 27.—The rosin movement continued light. Following is a record of the market for the week:—

	Barrels Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
Receipts ...	139	12	...	12	...	
Shipments	187	210	...	275	...	...
Stocks	61,465	61,394	61,456	61,181	61,193	61,193

Current prices on paint, varnish and lacquer materials are given in the alphabetical list of prices beginning on page 7

Reichhold

No. 1085 C. P. CHROME YELLOW

No. 1085 Chrome Yellow represents one of the finest lead chromates on the market.

This outstanding chemical color has a vivid, brilliant masstone shade, a clean tint, unusually high tinting strength and excellent light-fastness. No. 1085 also has low absorption resulting in a higher degree of initial gloss in enamels.

No. 1085 Chrome Yellow is another example of the outstanding quality of the Reichhold chemical color line. Your inquiries concerning this or any other Reichhold pigment color are invited.

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Chemical Color Division
General Offices: DETROIT, MICH.
Factory: BROOKLYN, N. Y.

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CHEMICAL Colors

SAVANNAH, Feb. 2.—The rosin market had a firm tone. Following is a record of the market for the week:—

	Price per unit—Low of range quoted					
	*Sat.	Mon.	Tues.	Wed.	Thurs.	Fri.
B	...	$4.50	$4.50	$4.50	$4.50	$4.50
D	...	4.75	4.75	4.75	4.75	4.75
E	...	5.10	5.10	5.10	5.10	5.10
F	...	5.20	5.20	5.20	5.20	5.20
G	...	5.35	5.35	5.35	5.35	5.35
H	...	5.40	5.40	5.40	5.40	5.40
I	...	5.50	5.50	5.50	5.50	5.50
K	...	5.50	5.50	5.50	5.50	5.50
M	...	5.55	5.55	5.55	5.55	5.55
N	...	5.55	5.55	5.55	5.55	5.55
WG ..	...	5.65	5.65	5.65	5.65	5.65
WW ..	...	6.20	6.20	6.20	6.20	6.20
X	...	6.20	6.20	6.20	6.20	6.20
	Barrels					
Sales..	...	116	...	...	12	...
Receipts	...	525	632	32	43	64
Shipments	...	2,996	541	676	86	...
Stocks..	...	...	...	...	...	202,792

* No trading.

JACKSONVILLE, Feb. 2.—The rosin market remained quiet. Following is a record of the market for the week:—

	Price per unit—Low of range quoted					
	*Sat.	Mon.	Tues.	Wed.	Thurs.	Fri.
B ...	...	$3.75	$3.75	$3.75	$3.75	$3.75
D ...	...	4.00	4.00	4.00	4.00	4.00
E ...	...	4.75	4.75	4.75	4.75	4.75
F ...	...	4.90	4.90	4.90	4.90	4.90
G ...	...	5.10	5.10	5.10	5.10	5.10
H ...	...	5.15	5.15	5.15	5.15	5.15
I ...	...	5.20	5.20	5.20	5.20	5.20
K ...	...	5.35	5.35	5.35	5.35	5.35
M ...	...	5.37½	5.37½	5.37½	5.37½	5.37½
N ...	...	5.45	5.45	5.45	5.45	5.45
WG..	...	5.55	5.55	5.55	5.55	5.55
WW..	...	6.30	6.30	6.30	6.30	6.30
X ...	...	6.30	6.30	6.30	6.30	6.30
	Barrels					
Sales..	...	...	...	...	...	...
Receipts	...	91	35	51	...	619
Shipments	...	205	100	131	930	7,937
Stocks..	...	...	...	...	...	332,876

* No trading.

Chicago—Feb. 2

The rosin market is quite steady. Buyers seem satisfied to take a routine position. Ruling prices at the close of business last night were:—B grade, $7.25 per lot of 280 pounds; G grade, $8.30; M grade, $8.55; W.W. grade, $9.25.

LONDON, Feb. 2.—Rosin, fine, 28s. 6d. per cwt; W.W. 35s.

Pine Oil.—Business was generally along conservative lines, but the movement for the week showed some increase over the previous period. Tone firm.

Pitch.—Quotations on spot material were generally held at former levels, with the tone of the market firm. A fair request was noted for moderate lots.

Rosin Oil.—Consumers showed little disposition to purchase in advance of current needs. Prices firm.

Tar.—A steady tone prevailed, selling schedules being unchanged. Business was somewhat more active.

Dry Colors

Bone Black.—Quoted at 6½c. to 17½c. per pound.

Carbon Black.—In good demand at 2.55c. per pound for uncompressed material and 2.41½c. for compressed, both f.o.b. plants. Exports continued heavy with compressed quoted at 5.21c. per pound in bags and uncompressed at 6.21c. in cases, both f.a.s. Gulf ports.

Chrome Green.—Sales volume was a bit better during the period, an indication that interest in the market is beginning to improve. The price was firm at 21c. to 30c. per pound for C.P. material.

Chrome Yellow.—The market had as yet failed to show upward tendencies but the price held firmly at 14½c. per pound for spot and 13½c. for contract.

Eosin Toner.—Firm at $1.25 per pound.

Iron Blues.—A bit more buying activity was reported during the week with prices firm at 34c. per pound for spot and 33c. for contract delivery.

Mercuric Oxides. — Despite the strength of the metal, sellers of this derivative held the price to former levels and sales were made in better volume on a basis of $2.41 per pound for the technical red material and $2.26 for the yellow.

Ocher. — American yellow firm at 1¾c. to 6¼c. per pound with demand slightly improved. The French product was steady and nominal at 2⅝c. per pound, f.o.b. New York.

Para Toner. — Market unchanged with sales made at 70c. per pound for contract delivery and 75c. for open order.

Potash Blue. — Firm at 42c. per pound, contract and spot.

Ultramarine Blue.—Demand at satisfactory level. Sales made at 16c. to 27c. per pound for regular grade.

Venetian Red. — Market unchanged with prices firm at 2.20c. to 3.60c. per pound, f.o.b. works.

Vermilion.—Strength in the metal

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IMPERIAL REPRESENTATIVE
IS BACKED UP WITH
SERVICE-MINDED
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59 BEEKMAN STREET, NEW YORK CITY

H-D FLUSHED PHLOXINES AND
RED LAKE C FOR THE INK TRADE
90-F-100 Phloxine Toner, Medium
90-F-102 Phloxine Toner, Dark
90-F-103 Phloxine Toner, Light
90-F-104 Phloxine Toner, Dark
45-F-100 Red Lake C
40-F-102 Red Lake C
The Hilton-Davis Chemical Co.
P. O. BOX 8, PLEASANT RIDGE STATION, CINCINNATI, O.

market failed to disturb the quotation for quicksilver material and prominent sellers continued to quote $2.46 to $2.55 per pound. This price was very strong, however, and an advance this week was not unlikely.

Synthetic Resins

Ester Gum.—Quoted at 6½c. to 6¾c. per pound for New York delivery. Demand routine and shipments on contract light.

Chlorinated Rubber. — Standard types were quoted at 32c. per pound for car lots and 35c. to 38c. per pound for less car lots. Demand was not heavy but was satisfactory to sellers.

Driers

Palmitates.—Contracts were being negotiated slowly last week as most were already signed. There was little spot business reported but deliveries against previous orders were slightly larger.

Stearates.—Similar to palmitates, deliveries were larger but there was little spot business. Quoted prices continued firm and unchanged.

Shellac

Prices for spot T.N. and superfine were lowered 2c. per pound last week, making the former 17c. to 17½c. per pound and the latter 18c. to 18½c. D.C., V.S.O., and Diamond I were down to 30c. to 31c. Quotations on bonedry shellac lacked change, as also did those on shellac varnish. The reduction in quotations was attributed to the drop in Calcutta quotations in the previous week. However, at this writing the market at the source has righted itself and seemed to be on the firm side, with no further decline developed. Demand on spot was moderate. Curtailment in consumption may be laid to weather conditions to some extent, but it also seemed likely that the large quantities of shellac which importers have delivered over the past three months has created some reserve of stocks in the hands of consumers.

Lacquer Materials

While trading in the market for lacquer materials lacked any new feature, buying remained moderately active. Consumers were displaying a steady interest, although commitments were scaled down somewhat from the higher levels prevailing in the final quarter. Operations in some basic consuming lines tapered off seasonally, and were expected to rebound within the next few weeks. Automotive output in particular was experiencing a normal leveling off before the Spring buying again stimulates production. Aside from the satisfactory domestic picture, inquiries for export were favorable, and sellers were making shipments in materials that would not interfere with domestic requirements. Acetone, butyls and methylethyl ketone were prominently mentioned as meeting with a good inquiry from abroad. Pricewise the market lacked any new developments, and the general tone of the market was firm.

Acetone. — Shipments continued moderately active against contracts. Export inquiry remained satisfactory. Prices were unchanged, and the tone of the market held firm.

Alcohol, Butyl.—Business in the normal and secondary grades was steady. Sellers were adhering to prices in effect previously.

Cellulose Acetate. — Transactions were somewhat below previous levels, but sufficient interest was reported to keep market in satisfactory position. Prices were well maintained at the levels established a short time ago.

Diamyl Phthalate. — Demand was only routine, but the market was in a strong position, and prices were retained at firm levels.

Ethyl Acetate.—Consumers entered the market for moderate size replacements against contracts. Prices were without change and firm.

Ethyleneglycol.—Some tapering off in demand was discernable, but on the whole volume was along normal lines for this time. Prices ruled firm.

Isopropyl Acetate.—A steady buying

RAYOX · RAYCAL · SURFEX · DURITE
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interest was reported, and market remained in a firm position.

Methylethyl Ketone. — Shipments moved to various consuming channels at a moderate pace. Prices were in conformity with those established previously.

Tricresyl Phosphate. — Production was more in line with demand than heretofore, that buying was steady. Prices were the same, and the tone of the market held firm.

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Varnish Gums

Copals.—Fifteen types of gum were reduced, the reductions ranging from ¾c. to 1⅝c. per pound. A slackening of demand in European market centers was reported the cause of the lower prices.

Dammars. — Practically all quoted prices were easier but no actual reductions were made. Shipments were lighter.

Glues and Binders

Casein.—Domestic material easier, quoted at 13c. to 14c. per pound for 20-30 mesh material, compared with a previous quotation of a flat 14c. Argentine material was also reduced, sales being made at 12c. to 12½c. per pound, a ½c. reduction. New Zealand product was lowered 1¼c. per pound to a basis of 13¼c. French casein nominal at 16c. per pound.

Glues. — A good demand held the market in a firm position and bone glue continued strong at 13½c. to 15½c. per pound, while hide glues were steady at 15c. to 24c.

Lacquer Sales Up

Sales of clear lacquers, pigmented lacquer bases and dopes, and thinners by 158 manufacturers, as reported to the Bureau of Census for the fourth quarter of 1939 and a comparison with a similar period in 1938 were as follows:—

	1939.	1938.
Clear lacquers...gals.	2,958,006	2,386,133
value.	$3,811,714	$3,098,198
Pigmented lacquers.. gals.	3,032,599	2,470,574
value.	$6,628,426	$5,434,187
Lacquer bases and dopes .....gals.	606,701	516,153
value.	$647,154	$582,005
Lacquer thinners.gals.	5,337,761	4,815,566
value.	$3,431,602	$3,001,736
Totals .....gals.	11,935,067	10,188,426
value.	$14,518,896	$12,115,556

Plastic, Coldwater Paint Calcimine Sales: 1939

Sales of plastic and cold-water paints and calcimines reported by fifty-three manufacturers to the Bureau of Census for 1939 were as follows:—

Plastic Paints

	Pounds	
	1939.	1938.
Paste, casein-bound....	839,121	1,149,788
All other.....	676,904	416,428
Dry, casein-bound.....	5,303,379	3,086,376
glue-bound	1,865,108	1,654,002
Totals	6,684,512	6,306,594

Cold-Water Paints

	Pounds	
	1939.	1938.
Exterior, lime or cement-bound	9,884,822	8,666,299
casein-bound	5,258,556	4,629,000
*Interior, casein-bound, paste or semi paste form.....	2,068,812	2,163,095
dry powder form...	13,582,820	11,003,908
glue-bound	4,361,180	4,540,340

* Gallons.

Calcimines

	Pounds	
	1939.	1938.
Hot water.....	35,309,472	37,455,711
Cold water.....	36,574,858	36,239,058
Totals	71,884,330	73,694,769

Value of the sales of these products for 1939 compared with 1938 was as follows:—

	Value	
	1939.	1938.
Plastic paints.....	$488,605	$482,417
Cold-water paints.....	5,340,641	4,536,806
Calcimines	3,023,098	3,077,748

R.B.H. Dispersions Offers New Resin Paste Colors Line

A new line of tinting colors, named "P. N. Resin Pastes," being manufactured by R. B. H. Dispersions, Inc., manufacturer of pigment dispersions in nitrocellulose, casein, and synthetic resins, is described in a leaflet issued by the company. The seven new pastes consist of pigments dispersed in modified phenolic resin, and are said to be suitable for paints, varnish enamels, and petroleum naphtha soluble alkyd resin formulations. A copy of the informative leaflet may be secured by addressing R. B. H. Dispersions, Inc., Bound Brook, N. J., mentioning the REPORTER.

Murray Observes Silver Wedding Anniversary

Sydney C. Murray, salesmanager of the linseed oil division of Spencer Kellogg & Sons, Inc., Buffalo, and Mrs. Murray celebrated their twenty-fifth wedding anniversary at a surprise party given by friends at the Meadowbrook Country Club January 27.

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SOVASOL No. 1 — Excellent General Rubber Solvent. Quick-Drying —Has Balanced Volatility.

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Gum Importers Name Skett Research Head

Anthony Skett, at various times associated with the Bakelite Corporation, the Sinclair Refining Company, and the Hilo Varnish Corporation, has been appointed director of research for the American Gum Importers' Association, Brooklyn. The appointment was made when the association decided to expand its laboratory program in natural resins. Mr. Skett was graduated from the College of the City of New York, with the bachelor of science degree in 1927, and the bachelor in chemical engineering in 1929.

Burch Paint Co. Formed

Burch Paint Company has been chartered under Maryland law to deal in paint, turpentine and related materials at Salisbury, Md. It has an authorized capital of 1,000 shares of a par value of $10 a share, and the incorporators of record are Williaim E. Younger, of Woodlawn, Md., and Lynn H. Burch and Howard B. Stocksdale, both of Baltimore. All three are well known in the industry.

Cleveland Club Told About Case Paint Course

The January meeting of the Cleveland Paint, Varnish and Lacquer Association was addressed by John Church, of the Case School of Applied Science, who discussed the course in paint and varnish technology which will be inaugurated by the school February 6. He said that the lectures would include discussion on drying oils, solvents and thinners, pigments, resins, gums and asphaltums, driers, varnishes, paints, enamels and primers, lacquers, a study of surfaces and application methods and a discussion of manufacturing costs and records. Another feature of the meeting was the showing of the sound film by Geofrey L. Cabot, Inc., titled "Inside the Flame."

Baltimore Paint Salesmen's Club, at its January meeting, named the members of its various committees.

Paint, Varnish, Lacquer Sales Up

The value of paint, varnish, lacquer and fillers sold in December, as reported by 680 establishments to the Bureau of Census, was $26,810,005. Details of sales reported by these establishments and comparative data for 1938 follow:—

	Total sales reported by 680 establishments.	Classified sales reported by 580 establishments—Trade sales of paint, varnish, and lacquer.	Industrial sales—Total.	Industrial sales—Paint and varnish.	Industrial sales—Lacquer.	Unclassified sales reported by 100 establishments.
1939.						
January	$25,166,042	$12,496,706	$10,269,334	$6,942,879	$3,326,455	$2,400,002
February	25,399,464	13,145,314	10,019,901	6,777,622	3,242,279	2,234,249
March	32,888,357	17,656,995	12,112,220	8,278,015	3,834,205	3,119,142
April	33,999,205	18,862,040	11,843,829	8,581,577	3,262,252	3,293,336
May	41,853,977	25,436,932	12,578,360	9,259,538	3,318,822	3,838,685
June	38,504,857	22,341,180	12,585,957	9,328,873	3,257,084	3,577,720
July	30,758,617	17,215,946	10,713,443	7,982,902	2,730,541	2,829,228
August	34,448,530	19,046,555	12,153,308	8,842,098	3,311,210	3,248,667
September	38,379,427	21,413,297	13,381,467	9,539,705	3,841,762	3,584,663
October	35,827,911	18,466,640	14,007,459	9,718,466	4,288,993	3,353,812
November	30,472,039	14,980,510	12,842,932	9,063,230	3,779,702	2,648,597
December	26,810,005	12,687,134	11,589,021	8,090,262	3,498,759	2,533,850
Total (year)	$394,508,431	$213,749,249	$144,097,231	$102,405,167	$41,692,064	$36,661,951
1938.						
Jan. to Nov.	$326,400,788	$186,078,135	$107,751,686	$75,027,433	$32,724,253	$32,570,967
December	21,281,326	9,885,307	9,293,043	6,166,468	3,126,575	2,102,976
Total (year)	$347,682,114	$195,963,442	$117,044,729	$81,193,901	$35,850,828	$34,673,943

Paint, Varnish Bill Of WPA $18,800,000

Paints and varnishes purchased for use on projects of the Work Projects Administration between July, 1935, and October, 1939, had an aggregate value of $18,800,000. During the twelve months ended June 30, 1939, statistics just released by the WPA show that the Federal government and local sponsors purchased for WPA projects $5,153,000 worth of paints and varnishes which were used on the more than 6,000 new public buildings completed by relief workers and in the modernization of another 17,000 structures.

Large quantities of paint also were used on the more than 10,000 air markers made by WPA workmen to aid aviators flying over areas where landmarks and other identifying features were scarce.

Paints and varnishes represent a small part of the material that is used in a building, yet the Bureau of Labor Statistics of the United States Department of Labor estimates that 13,200 man-months of employment were provided to workers in private industry in supplying the paints and varnishes necessary to finish the thousands of buildings erected or modernized under the WPA program.

Industry at large has been stimulated by vast quantities of other material purchased for WPA projects. During the period from July, 1935, through September, 1939, total funds expended for materials, supplies, and equipment amounted to $1,118,764,000, of which $655,702,000 represented sponsors' contributions and $463,061,000 the Federal government's share. Some 2,560,000 man-months of labor went into the manufacture of these materials, according to the Bureau of Labor Statistics.

Paint Technicians Of South to Meet

—*Continued from page* 3

"Developments in the Dispersion of Carbon Blacks," L. J. Venuto, of the Binney & Smith Co.

12:00 Noon—Luncheon.

2:00 p.m.—"The New Conception of Petroleum Solvents and Thinners," E. M. Toby, jr., of the American Mineral Spirits Company.

"Varnish Kettles from the Manufacturer's Viewpoint," A. Hock, of the Brighton Copper Works.

"The New Zinc Resinates Including Their Use with Wood Oil Substitutes," Edward Edelstein, of Newport Industries, Inc.

9:00 p.m.—Paint show closes.

9:30 p.m.—Bowling tournament, Blick's Bowling Center, 20 Houston, street.

Saturday, February 24

8:30 a.m.—Paint show opens.

9:30—"Formation and Destruction of a Paint Film," Dr. C. A. Knauss, of Reichhold Chemicals, Inc.

"New Developments in the Grinding of Paint Products," R. L. Cawood, of the Patterson Foundry & Machine Company.

"Manufactured Drying Oils," Otho M. Behr, of the Vegetable Oil Products Company.

12:00 noon—Luncheon.

2:00 p.m.—Business meeting for members only—

Report of membership committee.
Report of technical committee.
Report of secretary-treasurer.
Report of nominating committee.
Election of officers.

2:30 p.m.—Paint show closes.

2:30 p.m.—Round table forum; all technical men invited.

6:30 p.m.—Banquet and entertainment.

Negotiations have not yet been closed with all prospective exhibitors at the Paint Industries Show. Those to whom spaces have been assigned are:—

Advance Solvents & Chemical Corporation.
American Can Company.
American Mineral Spirits Company.
Archer, Daniels-Midland Company.
Bakelite Corporation.
Binney & Smith Company.
Diamond Alkali Company, Pure Calcium Products Division.
Falk & Co.
Great Western Manufacturing Company.
Newport Industries, Inc.
Nuodex Products, Inc.
Reichhold Chemicals, Inc.
Southern Shellac Manufacturing Company.
Thompson-Weinman Company.

Balto. Paint Club Hears About City Management

The Baltimore Paint, Varnish and Lacquer Association was addressed at its January meeting by Mrs. William Bauerschmidt, long identified with municipal management activities and public school problems. Mrs. Bauerschmidt discussed "Mr. Taxpayer Should See It Through." Lloyd E. Stegner, of the Sherwin-Williams Company, president of the club, presided.

Renwick G. Condon has been appointed manager of the San Francisco office of the Paul W. Wood Company, manufacturers' agent, San Francisco.

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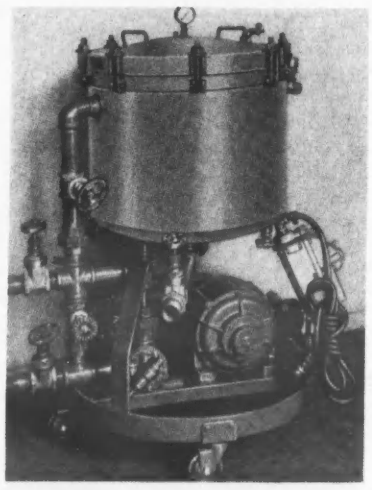

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Oils, Fats, and Waxes

Tallow Weakens Under Somewhat Freer Offerings — Narrow Fluctuations in Cottonseed Oil Futures—Coconut Oil Again Reduced — Perilla Scarce — Crude Degras Easier

No broadening of business was noticeable in miscellaneous oils, fats and greases last week. On the contrary consumers were still disposed in many cases to adhere to a hand-to-mouth course in making purchases and the movement of small lots in some branches of the market was lighter than in the previous period. Offerings of many products continued light, however, and while reductions in prices outnumbered advances, changes were generally narrow, and the prevailing tone at the close of the week was steady.

The reserved attitude of buyers was attributed by some to the absence of anything stimulating in the action of the markets for cottonseed oil and lard futures, price movements in the former commodity still being narrow and the trend of the latter again being downward despite some falling off in the movement of hogs to Western markets. A development of interest in the way of price changes was a decline in tallow, the easier position of that commodity being traceable to some increase in offerings. Chinawood oil quotations were stationary, while perilla was stronger on increasing scarcity.

Price Changes

Advanced

Perilla oil, ½c. per lb.

Reduced

Coconut oil, crude, ⅛c. per lb.
Degras, crude, ½c. per lb.
Grease, ½c. per lb.
Lard, Western, 10c. per 100 lbs.
Linseed cake, 50c. per ton.
Linseed oil, 3-10c. per lb.
Tallow, ½c. per lb.

Comparative Values

Index numbers compiled from twenty-three typical oils, fats and greases on the basis of 100 for August 1, 1914, compare as follows:—

Last week.	Prev. week.	Last month.	Last year.
106.7	**106.8**	**106.9**	**101.0**

Market news that may have developed after this report was sent to press will be found on page 4.

Chinawood Oil

Quotations were stationary last week and general conditions here were about as noted in recent preceding weeks. There were frequent inquiries for spot oil, but few transactions were reported owing to the smallness of supplies. The moderate stocks recently noted among resellers appeared to have been cleaned up. There was no increase in offerings of spot oil from importers, full tankcar lots still apparently being unobtainable, and offerings for nearby and distant delivery were also generally reported as light. According to official statistics, importations during the fourth quarter of last year were 22,370,112 pounds; consumption, 19,144,010 pounds; factory and warehouse stocks at close of December, 31,556,115 pounds. Importations were reported at New York last week of 470 tons and 1,400,000 pounds from Hongkong.

SAN FRANCISCO, Jan. 31.—Chinawood oil quoted at 2½c. per pound in tankcars, f.o.b. Pacific Coast ports, with business reported to have been put through during the week at 25¼c.

Vegetable Oils

Coconut.—Crude oil continued easy in the absence of any broadening of trade, consumers still being disposed in many cases to hold off for further developments. Quotations were reduced ¼c. Refined was quiet and steady at the reduction in prices announced in the previous week.

Corn.—Crude oil underwent little change during the week, the tone being steady in the absence of any material change in competing products. Offerings reported as light.

Cottonseed.—Edible oil was steady, quotations being held at previous levels by refiners. There was a fair movement to local and other consumers.

Olive.—A somewhat better inquiry was noted, but transactions were apparently limited to unimportant quantities. A steady tone prevailed.

Peanut.—Crude was generally reported as steady in Southern markets, with the inquiry slow and offerings light.

Perilla.—The local situation continued firm owing to the smallness of supplies and offerings. A fair inquiry was reported.

Soybean.—Selling schedules were generally maintained at previous levels by large producers, although reports continued to be heard of offerings from resellers at concessions. Business was quiet.

Markets at Other Centers

San Francisco, Jan. 31.—The general market for vegetable oils was quiet the past week. Taken as a whole, the market averaged downwards in the price position.

COCONUT.—Sales at 2¾c. per pound in tankcars, f.o.b. Pacific Coast ports and/or mills. Buyers are now bidding 2⅝c., apparently unsuccessfully. Copra sold at 1.80c. per pound, c.i.f. Offerings moderate.

BABASSU.—Quoted 5⅝c. per pound in tankcars, f.o.b. mills, Pacific Coast.

OITICICA.—Raw, liquid oil, 19c. to 20c. per pound in drums, f.o.b. Pacific Coast ports for forward shipment from Brazil. Spot stocks cleaned out.

PERILLA.—Strong; first-hand stocks apparently cleaned out. Resale oil quoted around 18¼c. per pound in tankcars. Japanese offerings absent.

TEASEED.—New crop oil, moderate acid, 12¼c. per pound in drums, f.o.b. Pacific Coast ports.

Chicago, Feb. 2.—Slightly easier tendencies noted in vegetable oils, although trend is not sufficient to warrant its being regarded as a definite weakening. Inquiry is not very active.

COCONUT.—Crude basis, 2⅞c. to 3c. per pound. Refined, edible oil, 9c. to 9¼c. per pound, drums, car lots.

CORN.—Crude, low acid, 6c. to 6⅛c. per pound, nominal. Refined, edible oil, 8¼c. to 8½c. per pound, drums, car lots.

SOYBEAN.—Crude, 5⅛c. to 5¼c. per pound, February-forward.

The market for soybeans on the Chicago Board of Trade was quieter. The trend was mainly downward. Following is a price record, per bushel, for the week:—

	High.	Low.	Closing Feb. 2.	Closing Jan. 26.
Cash	$1.07¼	$1.04¾	...	...
May	1.08½	1.04	1.05	1.08
July	1.05¾	1.02	1.02¾	1.05⅝

Linseed Oil

Changes in flaxseed quotations generally moderate. Linseed oil and cake lower; meal unchanged.

Flaxseed—DULUTH, Feb. 2.—Commercial demand for flaxseed continues good, but marketings were seasonably light this week, advices intimating that flax in the interior was being held for planting purposes. Buyers of flax for seeding showed good interest. Supplies here decreased almost 10,000 bushels, stocks now being only 50,000 bushels against 57,600 bushels last week and 110,000 a year ago.

The week's closing price range was as follows:—

	Cash.	May.	July.
Saturday	$2.15½	$2.04½	$2.01½
Monday	2.13½	2.03	2.00
Tuesday	2.09½	1.99	1.96
Wednesday	2.07	1.97	1.94
Thursday	2.06¾	1.95	1.92
Friday	2.07½	1.96	1.92

Crop movement in bushels follows:—

	Receipts 1940.	Receipts 1939.	Shipments 1940.	Shipments 1939.
This week.	2,325	.....	18,182	.....
Since Aug. 1..	3,716,292	1,625,318	1,640,386	1,421,107

MINNEAPOLIS, Feb. 2. — Moderating temperatures through northwest brought out a little more flaxseed from first hands during the past week and higher premiums paid by seed houses resulted in scattered liquidation of interior elevator operators so that receipts picked up slightly, but there was a ready demand for all offers and prices held firm to strong compared with futures. Currently the out movement of supplies due to seed house sales and shipments to out of town crushing mills exceeds the in movement and with local crushers still operating about 90 percent of their presses stocks on hand here are dwindling steadily. During the week ending January 27th total stocks decreased 245,000 bushels and in three days of the present week a decline of 60,000 bushels took place.

Seed house operators report a steady demand for offers and they are aggressive buyers in the cash market, paying 1 to 3 cents over crusher bids for desirable quality. Inquiry from Iowa is the best in years and southern Minnesota is buying steadily. As yet soil moisture content is not very satisfactory outside of southern and south central Minnesota and parts of Iowa.

The week's closing price range was as follows:—

	Cash.	May.	July.
Saturday	$2.13½	$2.02½	$1.99½
Monday	2.13½	2.00½	1.98
Tuesday	2.09½	1.96½	1.94
Wednesday	2.07	1.94	1.90
Thursday	2.06¾	1.93¾	1.90
Friday	2.07½	1.94½	1.91

Crop movement in bushels follows:—

	Receipts 1940.	Receipts 1939.	Shipments 1940.	Shipments 1939.
This week.	39,200	19,200	33,600	3,600
Since Sept. 1..	3,780,400	1,493,540	1,679,600	459,700

WINNIPEG, Feb. 2.—Fluctuations in flaxseed futures were moderate. Trading quiet. The week's closing price range was as follows:—

	Cash.	May.	July.
Saturday	$1.92½	$1.95¼	$1.92⅝
Monday	1.91½	1.94½	1.92½
Tuesday	1.91⅜	1.94⅜	1.91⅞
Wednesday	1.89⅜	1.92½	1.91
Thursday	1.88½	1.91¼	1.89
Friday	1.90⅝	1.93⅜	1.91

Current prices on animal, vegetable, and fish oils (under Oil), fats, and greases (under Grease) are given in the alphabetical list of prices beginning on page 7

STEARIC ACID
Single Pressed and Double Pressed
Available in either cake or flake form
Triple Pressed
IVORY BRAND

RED OIL
(OLEIC ACID)

RUBY OLEINE BRAND (*distilled*)
STAR BRAND (*saponified*)
CANARY BRAND
(*very pale yellow, especially suitable for best types of dry cleaners' soaps.*)

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CHINA WOOD OIL
WAH CHANG TRADING CORPORATION
SPOT Woolworth Building New York, N. Y. FUTURE

THE H. L. ALBERS COMPANY
EDIBLE TALLOW OLEO STEARINE OLEO OIL
SOYA BEAN OIL COTTON SEED OIL
NEUTRAL LARD REFINED LARD PRIME STEAM LARD
In Drums, Tierces, Tank Cars
Pratt and Poppleton Streets *Inquiries Invited* Baltimore, Maryland

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Since 1837 Manufacturers of Saponified and Distilled
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FATTY ACID GLYCERINE
STEARIC and BEESWAX CANDLES CHURCH ACCESSORIES
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America's largest producers of
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All Grades Saponified and Distilled
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SPECIAL FATTY ACID DERIVATIVES
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New York CINCINNATI, OHIO Lowell, Mass.

WOBURN HIGH QUALITY FATTY ACIDS HAVE BEEN THE STANDARD FOR YEARS FOR THE MANUFACTURE OF ALKYDS OF ALL TYPES

(Linseed, Soybean, Perilla, Sunflower, Isoline, Cocoanut, Lauric, Helioline-D)

WOBURN FATTY ACIDS FOR SOAP MAKING LOWER THE COST AND IMPROVE THE QUALITY OF THE SOAP

(Cottonseed, Palm, Cocoanut, Olivine, Distoline, Helioline-D)

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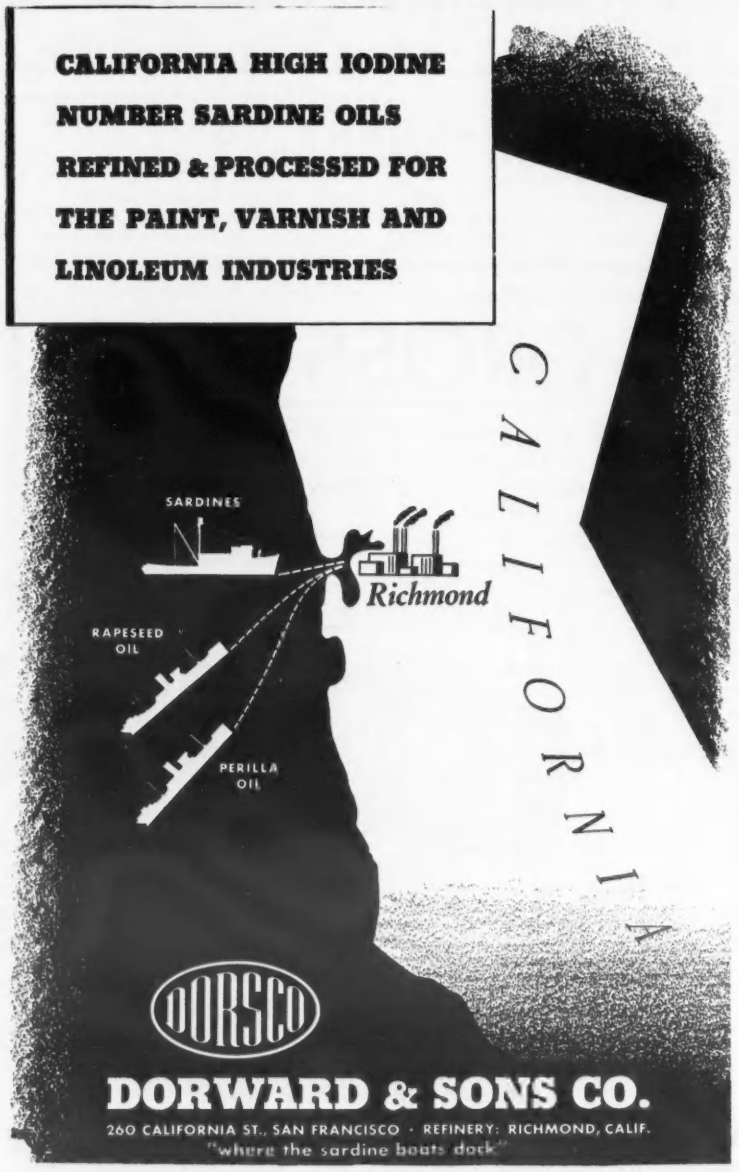
(Isoline)

WOBURN DEGREASING COMPANY OF NEW JERSEY

Chemical Division HARRISON, N.J.

CALIFORNIA HIGH IODINE NUMBER SARDINE OILS REFINED & PROCESSED FOR THE PAINT, VARNISH AND LINOLEUM INDUSTRIES



DORWARD & SONS CO.

260 CALIFORNIA ST., SAN FRANCISCO · REFINERY: RICHMOND, CALIF.

"where the sardine boats dock"

BUENOS AIRES, Feb. 2.—Opening prices per bushel on February contracts were:—

	Last week.	Last year.
Saturday	$1.24⅞	$1.05½
Monday	1.24⅞	1.05½
Tuesday	1.23¾	1.05½
Wednesday	1.23¾	1.05½
Thursday	1.23½	1.05⅞
Friday	1.23½	1.05⅞

Exports

To—	Last week.	Previous week.	Last year.
	—Bushels—		
United States	209,000	.....	579,000
United Kingdom	429,000	350,000	55,000
Continent	390,000	358,000	1,673,000
Orders	.....	598,000	75,000
Others	*47,000	.....	.....
Totals	1,075,000	1,306,000	2,382,000

* To Canada.

Since January 1

To—	This year.	Last year.
	—Bushels—	
United States	1,713,000	2,893,000
United Kingdom	1,778,000	240,000
Continent	2,500,000	3,649,000
Orders	598,000	1,409,000
Others	51,000	240,000
Totals	6,640,000	8,431,000

Visible Supply

	Bushels.
Last week	3,543,000
Previous week	3,150,000
Last year	5,118,000

HULL, Feb. 2.—La Plata flaxseed quoted at £15 7-16 per long ton; Bompay, £21.

Linseed Oil.—The local market for linseed oil was easier last week, competition among sellers being keener in the absence of any improvement in demand. Quotations were shaded three points by crushers, prices at the close of the week ranging from 9.7c. to 9.9c. per pound in tankcars. There was a fair movement on unfilled contracts but new business remained quiet, consumers still being disposed in many cases to await further developments in the Argentina situation as well as in domestic markets for other commodities.

Advices from some outside points reported a somewhat better inquiry for oil but actual transactions were apparently unimportant. Demand for cash seeds in the Northwest continued good, the principal buying being for account of seed houses. Purchasing by seed concerns was generally regarded as pointing to a substantial increase in the flaxseed acreage during the coming season. Bullish reports continued to be heard concerning the size of the exportable surplus in Argentina. Flaxseed receipts at New York last week were 30,480 bushels.

MINNEAPOLIS, Feb. 2.—Linseed oil very quiet and interest in offers is about the poorest in months. Crushers are not in the least inclined to press the market because of bullish Argentine news and scarce flax supplies at home. Crushers continue to operate about 90 percent of capacity. Stocks of oil are increasing slowly.

Quotations on carload lots f.o.b. Minneapolis, tankcar lots, 10.2c. per pound; cooperage car lots, 10.8c. per pound; warehouse lots, 11.2c. per pound.

Shipments of oil in pounds were as follows:—

	1940.	1939.
This week	2,280,000	780,000
Since Sept. 1	59,740,000	31,167,332

SAN FRANCISCO, Jan. 31.—Inquiry for linseed oil is better and deliveries quite good. Tankcars, 10.1c. per pound; drum lots, ex mill, 10.7c.; drum lots, ex warehouse, 11.1c.

CHICAGO, Feb. 2.—Linseed oil quiet. Tankcar, 10.2c. per pound; car lots, 10.8c.; less than car lots, 11.2c.

LONDON, Feb. 2.—Linseed oil, 40s. 6d. per cwt.

Cake and Meal.—Domestic and export business remained quiet last week. Meal was unchanged. Cake quotations shaded 50c. per ton.

MINNEAPOLIS, Feb. 2.—Meal trade is very quiet and in spite of that fact prices are holding steady. Pressure of soybean meal has subsided slightly and this unsettling influence is lessened temporarily. Improvement in demand is expected once the roads are cleared and weather moderates.

Quotations on carload lots f.o.b. Minneapolis, 100 pound sacks, $33.50 to $34 per ton.

Shipments of meal in pounds were as follows:—

	1940.	1939.
This week	3,600,000	1,520,000
Since Sept. 1	90,230,000	49,466,650

CHICAGO, Feb. 2.—Linseed meal in routine demand. Round lots, $34 to $35 per ton; car lots, $35 to $36; less than car lots, $37 to $38.

Cottonseed Oil

Refined oil futures were quiet here with narrow changes in prices. Southern markets for cottonseed products were generally quiet and steady.

Cottonseed Oil.—There was a continuation last week of the indecisive price movements witnessed in recent preceding weeks. Sentiment was still mixed and speculative operations continued on a small scale much of the time, many traders still being disposed merely to look on or operate for small turns in the absence of any stimulating developments in outside markets. March longs were inclined in some cases to change to later months, the switching being done at a difference of 13 to 31 points, according to position. July was switched to September at 7 to 8 points difference.

Southern markets for crude cottonseed oil were generally steady, lack of demand of consequence being offset by light offerings. Unsold supplies at the mills were said to be small. Demand for cash refined oil was generally reported as quiet and disappointing. Business in shortening was also described as slow though the market retained a steady tone. Crude coconut oil was again reduced and sales of tallow were reported at a decline. Domestic purchases of lard were apparently limited as a rule to comparatively small lots.

Exports of lard from this port to Europe increased, but the clearances from all Atlantic and Gulf ports for the season from November 1 last to January 27 this year were only 21,544,960 pounds or 25,779,551 pounds less than in the same time last season. Marketing of hogs in the West showed some falling off despite milder weather, the arrivals in the principal centers for four days of the week aggregating 345,500 head against 386,200 head in the same time in the previous week and 202,600 head last year. The weight of the hogs received in Chicago during the week ended January 27 averaged 237 pounds against 243 pounds in the previous week.

Trading in bleachable prime Summer yellow cottonseed oil futures on the New York produce Exchange from January 27 to February 2, inclusive, comprised 579 contracts, a total of 34,740,000 pounds. Following is a price record for the week:—

	—Cents per pound in tanks— High.	Low.	Close.
March	6.83	6.73	6.82@6.83
May	6.96	6.86	6.94@6.95
July	7.07	6.96	7.05 sale
September	7.14	7.02	7.13 sale

Crude, Southeast, .057c. Nom.

Markets at Other Centers

Chicago, Feb. 2.—Cottonseed oil tone a shade easier. Volume of business has been rather limited. Good, off-Summer yellow fig oil is 7¼c. per pound. Refined, edible oil is 9¼c. to 9½c. per pound, barrels, car lots; and 9¾c. to 10c., barrels, less than car lots.

Hull, Feb. 2.—Cottonseed oil, refined, 30s. 6d. per 112 pounds; crude, Egyptian, 26s.

Cake and Meal.—A steady tone was reported in Southern markets. Offerings of spot material were generally light. An increase in the movement of meal was reported in some sections.

Atlanta, Jan. 30.—The extremely cold weather with snow over much of the cotton belt, is taken as favorable for the destruction of the cotton boll weevil and for the soil.

Prime crude oil, 5⅞c. to 6c. per pound; 8 percent meal, $31.50 to $32 per ton at Southeastern mills.

Memphis, Feb. 2.—Crude cottonseed oil quiet. Today, 5¾c. bid; 5⅞c. asked. Meal in fair demand and steady; 41 percent, $29.50 per ton, Memphis. Cake, $26.50 per ton, Valley points. Hulls, $6.50 per ton, mill points.

Closing cottonseed meal quotations on the Memphis exchange were as follows:—

	January 25.	February 1.
March	$27.40@——	$26.85@26.95
May	26.50@26.75	25.80@26.25
July	26.30@26.60	25.50@26.00
September	24.50@25.00	23.75@——
October	.....@.....	23.65@——

Fatty Acids

Castor Oil.—This fatty acid remained in a firm position in the absence of any change in the castor oil situation. Demand good.

Current prices on animal, vegetable, and fish oils (under Oil), fats, and greases (under Grease) are given in the alphabetical list of prices beginning on page 7

Coconut Oil. — Basic material was slightly lower, but quotations on coconut oil fatty acid were generally stationary. Business quieter.

Cottonseed Oil. — Consumption of this fatty acid was said to be on a satisfactory scale but new business was rather quiet. Tone steady.

Palm Oil.—The market for palm oil fatty acid retained a firm tone. A somewhat better request was reported.

Red Oil.—A fair movement to consumers on contracts was noted but new business was rather quiet. Prices steady.

Stearic Acid. — No broadening of trade was reported but there was a fair movement on contracts and new orders. Market steady.

Chicago—Feb. 2

The fatty acids market is quite steady, with buying fairly good in the aggregate. Prices are showing every evidence of stability.

RED OIL.—Distilled or saponified, drums, 8½c. to 9½c. per pound; tanks, 9c. per pound.

STEARIC ACID. — Distilled, single press, 11½c. to 12½c. per pound; double press, 12c. to 13c.; triple press, 14¾c. to 15¾c.

OTHER FATTY ACIDS. — Corn oil, double distilled, 9c. to 9¼c. per pound, tanks; 9½c. to 9¾c., barrels, car lots; coconut oil, acidulated, 10c. to 10¼c. per pound, tankcar, mostly nominal; 10½c. to 10¾c., barrels, car lots; cottonseed oil, double distilled, 8½c. to 8¾c. per pound, tankcar; 9c. to 9¼c., barrels, car lots; settled cottonseed soap stock, 60-62 percent basis, 3c. to 3¼c.; boiled down soap stock, 65 percent basis, 4c. to 4¼c.; cottonseed foots, 50 percent basis, 1¾c. to 1⅞c.

Fish Oils

Menhaden.—Refined oil was firm at the advances noted in the previous week. Business was rather slow, consumers being interested merely in small lots to fill current needs.

Sardine.—A fair inquiry for refined oil was noted in some quarters, takings apparently being limited to comparatively small lots for prompt shipment. Prices unchanged.

Sperm. — Quotations unchanged and market tone firm. Business was on a moderate scale.

Whale.—Refined oil steady at previous quotations. Fair request for small or moderate lots from local and outside buyers.

Markets at Other Centers

San Francisco, Jan. 31.—Further tightening of the sardine oil market was seen during the week following business at 37c. per gallon in northern California, coincidental with the fact that the fish supply now not only appears to be dwindling, but the oil yield has become so low as to make profitable operation questionable. A check of the market revealed absolutely no further supplies of 37c. material present although in the aggregate possibly as many as 10 tanks had passed into buyers' hands at that figure during the week.

Last week a total of 7,033 tons of fish were turned into the plants throughout the state. San Francisco Bay accounted for only 300 tons and the entire southern California district got just 326 tons, according to the weekly statement issued by the California Sardine Products Institute. Monterey Bay factories fared better with a total of 6,407 tons for the week ended January 26. For the season to January 26, a total of 476,652 tons of fish were accounted for, compared with 479,126 tons as of a year ago on that date.

Baltimore, Jan. 31.—There is practically no oil left in the hands of the fishing companies, with the orders booked taken care of. Some oil has been offered, according to the latest accounts, at 34c. per gallon at shipping point, but buyers have held off.

Fats and Greases

Grease.—The market had an easier tone in company with tallow. Quotations were shaded ⅛c. by some sellers. There was a fair inquiry for moderate lots.

CHICAGO, Feb. 2. — Choice white grease, tierces, 5c. to 5¼c. per pound; B white, 4⅞c. to 5c.; yellow, 10-16, 4¾c. to 5c.; brown, 4½c. to 4¾c.

Lard.—Cash lard was easier here in company with futures in the West, although changes in local quotations were narrow. Domestic trade was on a fair scale. The export movement showed an increase.

CHICAGO, Feb. 2.—A fairly steady tone is noted in the cash lard market. Buyers continue largely of a conservative frame of mind in making their commitments. Following is a price record, per 100 pounds, for the week:—

	High.	Low.	Closing Feb. 2.	Closing Jan. 26.
Cash	$6.05	$5.90	$6.05	$6.10
May	6.37	6.17	6.30	6.40
July	6.57	6.35	6.50	6.60

Stearin.—Offerings were reported as light and the market had a steady tone. There was a fair inquiry.

CHICAGO, Feb. 2.—Prime oleo stearin, barrels, 6½c. to 6¾c. per pound; lard, 6⅜c. to 6⅝c.; white grease, 5½c. to 5¾c.; oleo stocks, 8½c. to 9c.

Tallow.—Offerings were somewhat freer and the market had an easier tone. Sales were reported at 5⅜c. per pound for extra, showing a decline of ⅛c. Reports were conflicting as to the extent of transactions during the week.

CHICAGO, Feb. 2.—Edible tallow, tierces, 5⅜c. to 5½c. per pound; prime, 5¼c. to 5½c.; fancy, 5¼c. to 5⅜c.; special, 5c. to 5⅛c.; No. 1, 4⅞c. to 5c.

There was no trading in tallow futures on the New York Produce Exchange from January 27 to February 2, inclusive. Following is a price record for the week:—

	High.	Low.	Close.
March	...	...	5.35 bid
May	...	...	5.40 bid

Animal Oils

Degras.—Crude quotations ranged from 9c. to 10c. per pound, according to grade, quantity and seller. Offerings of low grade were reported as somewhat freer. Neutral unchanged and firm.

Lard.—A steady tone prevailed here, selling schedules being maintained by refiners at the levels ruling in the previous week. A somewhat better request was noted.

CHICAGO, Feb. 2.—Lard oil, No. 1, 8¾c. to 9c. per pound.

Neatsfoot.—Quotations were stationary, and the tone appeared to be steady. Fair movement of moderate lots to local and other buyers.

Oleo.—Business along conservative lines, demand for moderate lots showing some increase over the previous period. Prices steady.

CHICAGO, Feb. 2.—Prime oleo oil, 8c. to 8¼c. per pound.

Tallow.—Quiet and steady at unchanged prices.

CHICAGO, Feb. 2.—Acidless tallow oil, 8¼c. to 8½c. per pound, tanks.

Waxes

Bees.—Conditions slightly unsettled. Some weakness in crude wax prices. Advance in refined yellow and bleached waxes checked. Some tendency to shade on latter items. Demand fair.

Candelilla.—Slightly more competition, but control of prices in primary market checks decline here. Fair request.

Carnauba.—Market still unsettled. Tendency to shade prices noted. No change in open schedule, but conditions more favorable for buyers. Interest of consumers still very good.

Japan.—Demand rather quiet. Some tendency toward price shading. Movement usually in jobbing quantities. No open change in price.

Horvath Laboratories Formed To Study Soybean Processes

Horvath Laboratories has been incorporated in Maryland with a capital of 100,000 shares of $1 par value, to conduct experiments and research into ways and means of processing soybeans and other animal, vegetable and mineral products. The directors are Artemy A. Horvath, of Chambersburg, Pa.; Edwin S. Valliant, of Los Angeles; Enos Valliant, of Cambridge, Md.; Emory E. May, Jr., and Harry A. Wolf, of Chambersburg, Pa. The incorporators of record are Enos Valliant, John S. Skinner, and William D. Gould, all of Cambridge, Md. Mr. Valliant is the son of the late William E. Valliant, who operated a fertilizer plant and was chairman of the committee of fertilizer men in Zone 3.

Tung Oil Arrivals Show Sharp Increase

Importations of chinawood oil at New York last week were 470 tons and 1,400,000 pounds from Hongkong.

W. Rice Made President Of Phila. Chemical Club

Webster Rice, of the J. T. Baker Chemical Company, was elected president of the Chemical Club of Philadelphia at the annual meeting in the Ritz-Carlton hotel, January 29. He succeeds W. R. Cleary, of the Barrett Company. Other officers elected were: —Vice-president, John McChesney, of the Leatex Chemical Company; treasurer, F. S. Dubbs, of the American Cyanamid & Chemical Corporation, and secretary, G. B. Heckel, jr., of *The Paint Industry Magazine.*

New Eng. Drysalters Party Had Large Attendance

Boston, Jan. 30, 1940

The Drysalters Club of New England held its annual dinner in the Copley Plaza Hotel, this city, last night. More than 300 members were present. Will Irwin, internationally-known reporter and author was the principal speaker of the evening. An informal talk was given by Charles Gagnobin, who was one of the original founders when the club was organized fifty-five years ago. Arthur Sampson, of the Calco Chemical Company, was the toastmaster.

Margarin factory will be erected in Sourabaya, Java, by the Philippine Manufacturing Company, a subsidiary of the Procter & Gamble Company, Cincinnati.

G. H. Tomlinson, manager of the New York office of the Archer, Daniels, Midland Company, linseed crusher, Minneapolis, left last week for a vacation in Florida.

Oleomargarin Standard Of Identity Proposed

—Continued from page 5

cleansing compounds, or flavoring compounds."

In his statement, Dr. Abbott listed the oils which have been used in this country in margarin manufacture, but noted that the use of any wholesome edible fats and oils that are, or may become, available, should be allowed. Preservatives, he said, are sometimes used on the theory that they assist in getting the product to the consumer in better condition, and he listed as suggested preservatives ascorbic acid, d-gluco ascorbic acid, water extract of oats and certain other cereal grains, and calcium and sodium propionates.

Emulsifying agents listed by Dr. Abbott are lecithin, eggs or egg yolk, certain derivatives of glycerin, polymerized vegetable oils, vegetable gums, gelatin, starch, and sodium alginate. The colors generally used, he said, are annatto and certified colors, such as FD & C No. 3 (yellow AB) and FD & C No. 4 (yellow OB).

The use of additional quantities of flavoring materials might be desirable in order to make a more palatable product, and such additions should be allowed, Dr. Abbott said. His statement that the desirability of adding vitamin A is amply supported by scientific evidence and opinion raised a discussion of the point by industry members present, some of whom felt that "the practice of fortifying various foods with assorted vitamins can be overdone."

New England Paint Salesmen's Club has elected Walter A. Coffey president.

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Spermaceti Ceresine Red Oil Glycerine Stearic Acid
WARRANTED PURE BEES WAX

TALL OIL
90-92% SAPONIFIABLE
(About 45% Rosin Acids, 45% Fatty Acids)
Prompt Delivery Ex-Warehouse, New York
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The best that can be produced. It is 100% PURE BEESWAX and measures up to all the requirements of the U. S. P.
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THEODOR LEONHARD WAX CO., INC. (Dept. A)
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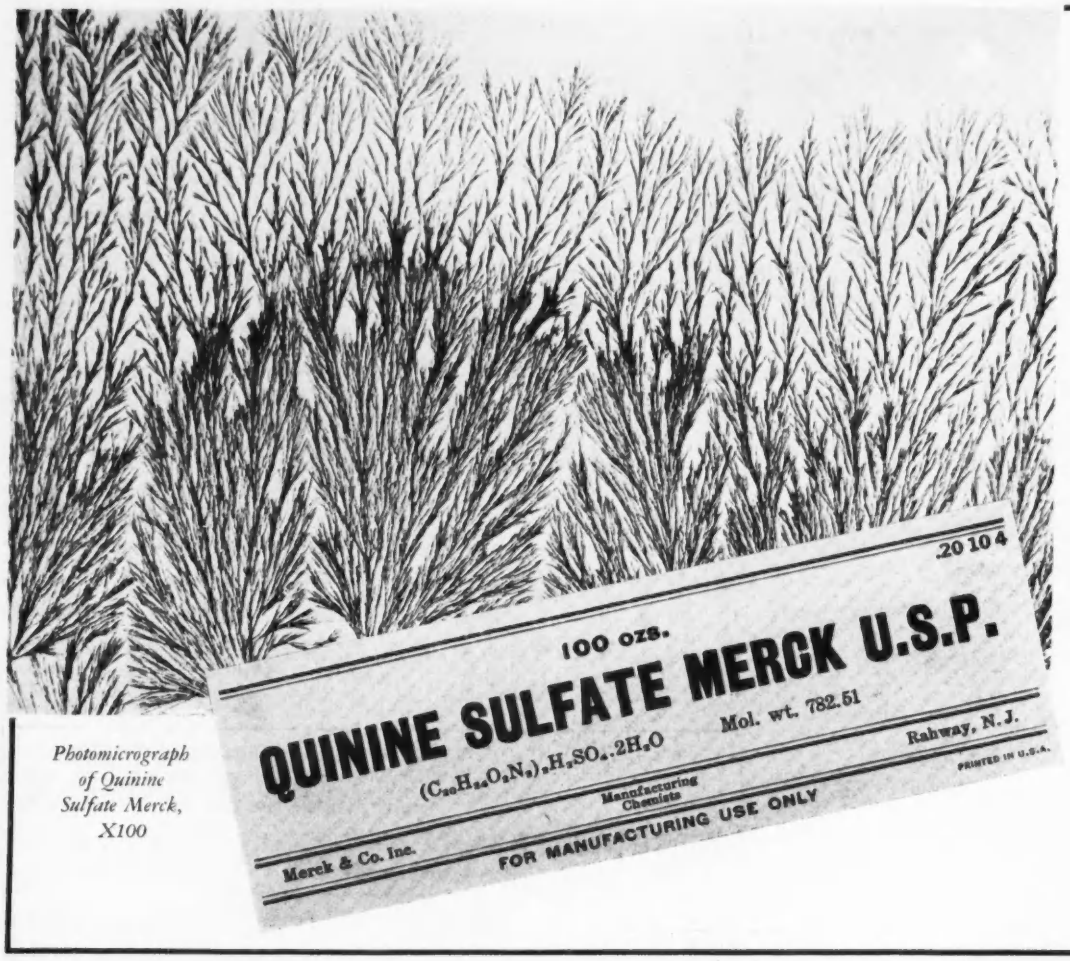
QUININE

MERCK



Photomicrograph of Quinine Sulfate Merck, X100

SINCE the isolation of quinine from cinchona bark more than a century ago, new uses have continuously been found for this drug. Its consequent incorporation in many pharmaceutical preparations has resulted in various technics of medication such as peroral, subcutaneous, intramuscular, intravenous, colonic and dermal. Quinine has contributed as an antimalarial, astringent, bactericide, tonic and local anesthetic. There are few medical specialties in which it has not been recognized.

A COMPREHENSIVE LIST OF QUININE SALTS IS AVAILABLE FOR YOUR PREPARATIONS.

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FINE CHEMICALS FOR THE PROFESSIONS AND INDUSTRY SINCE

★ 1818 ★

MERCK & CO. Inc. *Manufacturing Chemists* RAHWAY, N. J.

New York • Philadelphia • St. Louis • In Canada: Merck & Co. Ltd., Montreal and Toronto

Drugs, Fine Chemicals

Domestic Quicksilver Upped Again—Gallic and Pyrogallic Acids Higher — Hyoscine Hydrobromide Nominal — Barbital Shows Strength—Mercurials Unchanged—Tartar Products Strong

The drug and fine chemical market seemed to be slightly passive last week without revealing the slightest signs of weakness. It was probable that lacking developments of exceptional interest and importance, the market seemed quieter than it actually was. That a steady movement of products to consumers prevailed was unquestionable and, of course, the general structure of prices remained steady to firm.

Of course, seasonal items came in for excellent request. Weather conditions have been propitious for a high consumption of Winter chemicals suitable to combat Winter ailments. This angle of the market was as active as ever.

Raw materials revealed strength. Many raw materials show a cost that alone would warrant the maintenance of present prices, if not actually to suggest higher levels as being not unlikely. However, it was clear that the leading producers were opposed to prices "running away." The desire for reasonable stability was unabated. They also seemed fully committed to keeping goods from the purely speculative element that has grown up with the war.

Reports from the office of the American commercial attache at Tokio, Japan, stated that licenses for the importation of medicinals and pharmaceuticals were becoming increasingly hard to obtain from the authorities.

Price Changes

Advanced

Gallic acid, N.F., 15c. per lb.
Pyrogallic acid, U.S.P., crystals, 10c. per lb.
resublimed, 5c. per lb.
Quicksilver, domestic, $5 per flask.

Reduced

Camphor, Japanese, 2c. per lb.

Comparative Values

Index numbers compiled from thirty-five typical drugs and fine chemicals on the basis of 100 for August 1, 1914, compare as follows:—

Last week.	Prev. week.	Last month.	Last year.
197.8	**197.6**	**196.4**	**182.7**

Market news that may have developed after this report was sent to press will be found on page 4.

Acid, Acetylsalicylic.—Steady demand. Consumption up to seasonal levels. Prices fully maintained. No unsettlement in sight.

Acid, Boric.—Business was quiet, lacking the extraordinary. Movement up to expectations. Prices completely stable.

Acid, Citric.—Trade down to Winter dullness. Prices steady.

Acid, Gallic.—Higher replacement cost of raw material forced rise in acid prices. Market: N. F. VI, barrels, 5 or more, 92c. per pound; single barrels, 95c.; drums, $1.01.

Acid, Pyrogallic. — Prices higher. USP crystals, $1.55 per pound; resublimed, $2.10. Advance forced by rising cost of production due to prices paid for raw material.

Acid, Tannic.—USP and fluffy unchanged. Technical, 44c. to 46c. Market strong because of raw material cost.

Acid, Tartaric.—No further price advance. Situation strong. Raw material in tight position. No signs of supplies increasing or costs declining. Demand for acid very good.

Adeps Lanae.—Steady absorption of offerings. Prices reflect pronounced firmness. Little competition.

Agar.—Consumption running very well. Prices fully firm. Import costs show strength. Replacements subject to transportation delays.

Alcohol.—Stocks moving steadily in good volume. Improved market position unaltered. Outlook favorable for continued maintenance of prices. No signs of pending drop in consumption rate.

Aloe.—Unabated price strength reported. Primary sources very firm. Spot stocks moderate. Outlook for demand good.

Aloin.—Inquiry fair. Sales moderate to satisfactory. Prices firm, reflecting raw material strength.

Amyl Acetate.—Consumption volume maintained. No developing price unsettlement. Competition within narrow limits.

Amyl Alcohol.—Some gain in inquiries and sales. Prices fully firm.

Bismuth Metal and Salts.—Slight lull in demand. Still satisfactory. Prices well stabilized.

Caffeine.—This item in tight position. "Tight as a drum" according to one seller. Production hampered by raw material situation. Offerings moderate and transportation costly and slow. Demand for caffeine excellent.

Calomel.—Undertones very firm. Extreme advance in raw material costs not reflected in calomel schedule. Situation warrants close watching.

Camphor.—Natural camphor shaded. Prices:—Powdered or slabs, 83c. to 84c. per pound; tablets, 88c. to 89c. Caused by local competition. Forward position unimproved. Prices strong at source. Domestic synthetic production well sold ahead. Only regular buyers being supplied.

Castor Oil.—Market strong. Excellent demand ahead of producers' ability to meet. Raw material costs also strong.

CHICAGO, Feb. 1.—Ruling prices are: —No. 1, barrels, car lots, 13⅝c. per pound; barrels, less than car lots, 14⅜c.; returnable drums, car lots, 13⅜c.; drums, less than car lots, 14⅛c.; tanks, 12⅞c.; No. 3, barrels, car lots, 13⅛c.; barrels, less than car lots, 13⅞c.; returnable drums, car lots, 12⅞c.; drums, less than car lots, 13⅝c.; tanks, 12⅜c.

Chloral. — Routine quantities moving smoothly at steady prices.

Chloroform.—Call for technical item excellent. U.S.P. movement routine but about normal. Prices well stabilized.

Corrosive Sublimate.—Price advance expected but unrealized. Raw material advanced further. Close watching the rule. Demand normally active.

Coumarin.—Firmness of raw material keeps coumarin prices steady. Very good demand.

Cream of Tartar. — Substratum of market one of great strength. No further advance in raw material of derived materials prices.

Creosote. — Active along seasonal lines. Prices steady.

Ephedrine.—Health conditions favor excellent consumption. Prices steady to firm.

Ether.—Trade normal. Prices stable. Volume improved over a year ago.

Formaldehyde.—Movement substantially maintained. Contract tenders taken promptly. Prices well maintained.

Glycerin. — Consumer needs cared for promptly. Volume good. Prices show stability. No signs of early change in satisfactory aspect.

CHICAGO, Feb. 1.—Ruling prices are: —Chemically pure, tanks, 12¼c. per pound; drums, car lots, 12½c.; drums,

Current prices on drugs and fine chemicals are given in the alphabetical list of prices beginning on page 7

EDW. S. BURKE
J. F. HOLLYWOOD

Representing:

CARUS CHEMICAL CO., INC.

BENZOIC ACID
SODIUM BENZOATE
HYDROQUINONE
MANGANESE CARBONATE
MANGANESE DIOXIDE
MANGANESE SULFATE
POTASSIUM PERMANGANATE
RARER PERMANGANATES

BENZOL PRODUCTS CO.

AMINOACETIC ACID (Glycocoll)
AMINOPHYLLINE
BENZOCAINE
CHLORBUTANOL
CINCHOPHEN
CINCHOPHEN SODIUM
ETHYL GLYCOCOLL HYDRO-CHLORIDE
GLYCYL GLYCOCOLL HYDRO-CHLORIDE
8—HYDROXYQUINOLIN
ISOBUTYL PARA-AMINO-BENZOATE
NEO CINCHOPHEN
OXYQUINOLIN BENZOATE
OXYQUINOLIN CITRATE
OXYQUINOLIN SULPHATE
POTASSIUM OXYQUINOLIN SULPHATE
PHENOBARBITAL
PHENOBARBITAL CALCIUM
PHENOBARBITAL SODIUM
PROPYL PARA-AMINO-BENZOATE
TETRA-IODO-PHENOLPHTHALEIN SODIUM
THEOPHYLLINE
BENZALDEHYDE
BENZYL ALCOHOL
BROMSTYROL
CINNAMIC ACID
DIACETYL
METHYL CINNAMATE
METHYL PHENYL ACETATE
PHENYL ACETIC ACID
BENZALDEHYDE
BENZYL ALCOHOL
BENZYL CHLORIDE
BENZYL CYANIDE
DIETHYL OXALATE
DIMETHYL UREA
DI-NITRO CRESOL
CYANO ACETIC ACID
ETHYL BROMIDE
ETHYL CYANO ACETATE
8—HYDROXYQUINOLIN—5—SULPHONIC ACID

CRANSTON CHEMICAL CO.

LIQUID BROMINE

We could serve a few additional chemical manufacturers of non-conflicting products

EDW. S. BURKE
Established 1917
132 FRONT STREET NEW YORK, N. Y.

Industrial and Pharmaceutical Chemicals

QUININE
Sulphate and Minor Salts

CINCHONINE CINCHONIDINE
QUINIDINE
and their Salts

"AMSTERDAM" BRAND
"MAARSSEN" BRAND

R. W. Greeff & Co. Inc. New York, N. Y.

R. W. GREEFF & CO.
10 East 40th Street New York, N. Y.

PROCTER & GAMBLE
Largest Producers and Refiners of
CHEMICALLY PURE GLYCERINE
U.S.P.
Packed in drums and cans
Also other grades—Stocks in principal cities
Gwynne Building, Cincinnati, Ohio
205 East 42nd Street, New York City
C/P

QUICKSILVER
TARTARIC ACID
CREAM OF TARTAR
TEASEED OIL RED OIL FATTY ACID RICE BRAN OIL
LEGHORN TRADING CO., 21 West St., New York City
Branches: Boston Philadelphia

NATIONAL BRAND MILK SUGAR
QUALITY STANDARD THE WORLD OVER SINCE 1883
ALPHA LACTOSE BETA LACTOSE
POWDERED-GRANULAR IMPALPABLE
NATIONAL MILK SUGAR COMPANY
Division of The Borden Company
350 MADISON AVENUE NEW YORK, N. Y.

AMMONIUM SULPHATE PURIFIED
CHEMICALLY PURE EXCEPT AS TO CHLORIDES
POTASSIUM CHLORIDE N.F.
AMMONIUM CHLORIDE U.S.P.
SCHUYLKILL CHEMICAL COMPANY
2346-2354 Sedgley Avenue - - Philadelphia, Pa.

Baker's chemicals
IODIDES
Your choice of Ammonium, Potassium, Sodium. All free from Iodates and relatively free from Chlorine and Bromine compounds. Write for free testing samples.
J. T. BAKER CHEMICAL CO.
PHILLIPSBURG, N. J.
New York Philadelphia Chicago

BENZOL PRODUCTS COMPANY
237 South Street, Newark, N. J.
MANUFACTURERS OF FINE CHEMICALS
PHENOBARBITAL
AMINO ACETIC ACID

VITAMIN PRODUCTS
FISH LIVER OILS
ATLANTIC COAST FISHERIES CORP. OF N. Y.
111 JOHN STREET, NEW YORK, N. Y.

less than car lots, 13c.; high gravity, tanks, 11¾c.; drums, car lots, 12c.; drums, less than car lots, 12½c.

Hyoscine. — Hydrobromide almost unobtainable; $55 per ounce paid. Market nominal.

Iodine and Iodides.—General interest improved. No change in price schedule. Somewhat larger quantities in request.

Iron Acetate.—Satisfactory call for N.F. material. Market undertones firm to steady.

Mercury Bisulphate. — Some expect advance because of raw material advances. Not materialized yet. Producers view quicksilver price position as unwarranted.

Mercury Oxides. — Price tendency upward but movement remains stalled. Raw material cost up again.

Methyl Acetone. — Firm position noted. Consumption rate maintained well. Prices show strength.

Morphine.—Seasonal volume maintained fully. Demand expected to hold. **Quotations very firm.**

Phenobarbital. — Producers confirm unchanged prices. Report trade normal.

Quicksilver. — Domestic price advanced to $180 to $185 per pound. Some recently bearish have turned bulls. Large demand in abeyance. Many consumers expect price reaction.

SAN FRANCISCO, Jan. 31.—Transactions aggregate between 800 and 1,000 flasks. Delivery to be out of spot stocks and future production. Prices paid range $170 to $175 per flask. Present price views $178, delivered New York. California production, 1939, estimated at 11,500 flasks, valued at $1,140,000.

Red Precipitate.—Strength unabated. Market influenced by further advance raw material prices. Demand about normal.

Rochelle Salt.—Tendency still upward. Raw material strong in all ways. Demand good.

Saccharin.—No free trading. Consumption engaged well ahead. Sellers show reserve in taking new business.

Salicin.—Inquiry and demand gains. Prices firmer.

Salol.—Trade somewhat less active. Market still firm.

Santonin.—Prices stabilized in dull market.

Seidlitz Mixture.—Demand excellent. Prices strong. Tendency still upward. Raw material strength unchanged.

Silver Nitrate.—Price schedule, basis 100-ounce lots. Smaller lots cost 1c. to 2c. more; 500 ounces, about 1c. less. Table compares prices on bullion, New York and London.

	Per ounce		
		Bullion	
	Nitrate. Cents.	New York. Cents.	London. Pence.
Saturday	26⅞	34¾	21⅛
Monday	26⅞	34¾	21⅛
Tuesday	26⅞	34¾	21⅛
Wednesday	26⅞	34¾	21⅛
Thursday	26⅞	34⅞	21⅜
Friday	26⅞	34⅝	21⅛

Emulsifier for Toiletries Marketed by Kessler Corp.

A new emulsifier has been placed on the market under the name "Kesscowax AC" by the Kessler Chemical Corporation, Philadelphia. A wax-like product, it is said to be especially suited for the preparation of greaseless creams and lotions having an acid reaction, producing stable emulsions in the presence of citric, lactic, salicylic, and other acids or acid materials. Informative literature on "Kesscowax AC" may be obtained from W. W. Angus, Inc., 239 Eleventh avenue, New York, who is sole selling agent for Kessler products.

Carey PRODUCTS
Carbonate of Magnesia
Oxide of Magnesia
U. S. P. and Technical Grades
THE PHILIP CAREY CO.
Dependable Products Since 1873
LOCKLAND, CINCINNATI, OHIO

REFINED GLYCERINE
ALL GRADES
CHEMICALLY PURE U.S.P.
CHEMICALLY PURE B.P.
YELLOW DISTILLED-HIGH GRAVITY-DYNAMITE
Refineries located at:
- BROOKLYN, N. Y.
- JEFFERSONVILLE, IND.
- JERSEY CITY, N. J.
- BERKELEY, CALIF.
- KANSAS CITY, KANS.

COLGATE-PALMOLIVE-PEET CO.
GLYCERINE DEPARTMENT
105 Hudson Street Jersey City, New Jersey

Established 1910
HUISKING
IMPORTERS and EXPORTERS
COD LIVER OIL
(Peder Devold Brand, Finest Lofoten Norwegian Medicinal)
Produced in our own refinery in Norway. Prepared from livers of fish caught in the Lofoten Island fishing grounds.
The Peder Devold Brand is Guaranteed to be of the Highest Quality and is Practically Odorless and Tasteless.
We solicit your inquiries as to your requirements
CHAS. L. HUISKING & CO.
INCORPORATED
155 VARICK STREET NEW YORK, N. Y.
CHICAGO BRANCH: 561 E. ILLINOIS STREET

IODIDES

IODINE RESUBLIMED
POTASSIUM IODIDE
SODIUM IODIDE
THYMOL IODIDE
IODOFORM

Keep in min
New York Board of Trade
Drug, Chemical and Allied Trades Section
15th ANNUAL BANQUET
March 14, 1940
Waldorf-Astoria Hotel
New York City

THE NEW YORK QUININE & CHEMICAL WORKS INC.
GENERAL OFFICES
99-117 North Eleventh Street, New York, Borough of Brooklyn
ST. LOUIS DEPOT, 915 MARKET STREET, ST. LOUIS, MO

PENICK

pesticides...

PYREFUME Super 20 — the perfected Pyrethrum Extract-guaranteed in pyrethrins content. Each gallon made from 20 pounds or more of high-test pyrethrum flowers. Chemically and physiologically tested for household and agricultural sprays. Proven effective against flies, mosquitoes, roaches, bed bugs, silverfish and other hardy pests.

DERRIS EXTRACTS — with standardized Rotenone content.

LIQUID (5% Rotenone) in pine oil or acetone for agricultural sprays.

POWDERED (15% Rotenone) for flea powders.

SOFT and GRANULAR (15% to 38% Rotenone) for general manufacturing work.

ROTENONE
Chemically Pure for technical use.

RED SQUILL — Powdered and Extract — physiologically tested for efficient rat control. Supplants use of customary poisons dangerous to man.

Additional Information on Penick Perfected Insecticides upon request

S. B. PENICK & COMPANY

132 NASSAU STREET, NEW YORK, N. Y. 1228 W. KINZIE STREET, CHICAGO, ILL.

THE WORLD'S LARGEST BOTANICAL DRUG HOUSE

U. S. P. and TECHNICAL

CHLOROFORM

Prices on Request

CHAPLAIN & BIBBO, Inc., 110 Washington Street, New York

FISH LIVER OILS

HIGH VITAMIN POTENCY

CONSUMERS IMPORT COMPANY, INC.

342 MADISON AVENUE, NEW YORK

PYROCATECHIN

C. P. Crystals and Resublimed Crystals

RESORCIN—(Technical—U. S. P.)

PENNSYLVANIA COAL PRODUCTS CO.

PETROLIA *Established 1916* PENNSYLVANIA

The World Renowned Benckiser

TARTARIC ACID

CRYSTALS—POWDER—GRANULAR

Guaranteed U. S. P.

OBTAINABLE FROM

NEUBERG CHEMICAL CORPORATION

441 LEXINGTON AVENUE, NEW YORK CITY

Telephone MUrray Hill 6-1990

F.T.C. Puzzles Over Warnings in Drug Ads

—Continued from page 4

an advertisement for foods, drugs, or cosmetics is false if it is misleading in a material respect, and requires the commission to take into account not only representations made or suggested "but also the extent to which the advertisement fails to reveal facts material in the light of such representations, or material with respect to consequences which may result from the use of the commodity to which the advertisement relates under the conditions prescribed in said advertisement, or under such conditions as are customary or usual". Almost identical language as to labeling appears in section 201 (n) of the food, drug, and cosmetic act.

In other sections the drug act goes into considerable detail as to what statements must be on the label of a drug in order that it not be misbranded, and these provisions are amplified by regulations. The Federal Trade Commission has no present intention of requiring advertisements to contain all the statements required on labels, providing such statements as are made are truthful.

The prohibition on omission of material facts is the subject of continual study by the F.T.C. staff. There is a measure of opinion on the staff that advertisements for drugs recognized as dangerous, such as thyroid and dinitrophenol, should include a warning statement against their use indiscriminately. At the other extreme it is felt that advertisements need not carry warnings against injury from use by persons having allergies or idiosyncrasies or special pathological conditions. An example would be the warning on cathartic labels that they are not to be used in cases of possible appendicitis. Between these two extremes there are many borderline cases, such as drugs like bromides and acetalalide, where injury comes through overdosage or long-continued taking. In the view of several members of the F.T.C. staff advertisements for such products could easily be brought within the requirements of the Wheeler-Lea act by inclusion of a statement that the drugs are to be taken in accordance with the directions on the label.

In at least one injunction against a false advertisement obtained from the Federal courts by the commission, the "failure to reveal" provision has been invoked. This was an injunction issued in Chicago against Edward L. and Mildred Jenkins to prevent them from advertising that "said preparations constitute a safe, competent and scientific treatment for delayed menstruation, or that their use will have no ill effect upon the human body, or which advertisements fail to reveal that when said preparations are taken under the conditions prescribed in said advertisements or under such conditions as are customary and usual, they may result in serious or irreparable injury to health."

Examples of how this "failure to reveal" provision is being applied by the commission in cease and desist orders are the following excerpts from orders recently issued:—

Or which advertisements fail to reveal that said preparation, "Zendejas Medicine," whether sold under the aforesaid name or any other name, contains potassium iodide and that said preparation may be injurious to persons afflicted with latent tuberculosis or toxic goiter, and that its indiscriminate use by the lay public is dangerous. . . .

Or which advertisements fail to reveal that said preparation, "Zendejas Ointment," whether sold under the aforesaid name or under any other name, contains betanaphthol and that said ingredient is a dangerous drug which should be used only under a physician's supervision.

That the use of said preparations . . . is a competent, safe, or scientific treatment for delayed menstruation, and that their use will have no ill effects upon the human body, or which advertisements fail to reveal that the use of such preparations may result in serious and irreparable injury to the health of the user.

That the use of said preparations . . . is a cure or remedy for, or has any therapeutic value in the treatment of, prostate gland weakness or inactivity, or which advertisements fail to reveal that the use of such preparations may result in serious and irreparable injury to the health of the user.

Botanical Drugs, Spices, and Gums

Hungarian Botanicals Harder to Get, Spot and Source—General Market Here in Strong Statistical Position — Buckthorn Scarce—Belladonna and Valerian Rising

Numerous, and very sharp, advances in botanical drug prices was clear evidence of the continuing difficulty in getting goods at even fairly reasonable prices in Europe. Also, a considerable number of items of domestic origin appeared to be stiffening, strengthening, or advancing. The situation was such as to suggest that given a revival of large demand, quotations would be found poised for a return to higher levels.

Developments in Hungary, which might be called the cradle of European botanical drug supplies, showed clearly the underlying stratum of strength. It seemed to be increasingly difficult to get firm offerings and without exception dealers abroad who hold unsold stocks have very fancy ideas regarding the value of their holdings.

Lack of expansive demand in any large sector of the local botanical drug market acted as a brake on the basic tendency of prices to rise. Trade last week continued along rather quiet lines and total volume of business appeared to be moderately conservative at the close of the period. It remained to be seen if that condition of affairs was to be long continued.

Balsams

Peru.—Undertones firmer. No price shading locally. Demand routine.

Tolu.—Market higher. Price range 90c. to 95c. per pound. Reserves light. Replacement costs show no easing.

Barks

Black Haw.—Genuine tree bark brought 18c. per pound. Shony haw was offered at 15c. Root bark was higher at 26c. to 27c. per pound.

Buckthorn.—Whole bark higher at 20c. to 22c. per pound. Cut and sifted material in light supply and higher at 23c. to 25c.

Cascara Sagrada.—Market up to 15c. to 16c. per pound. Tendency to make 16c. minimum. Firm at all points. Demand good.

Elm.—Powdered shaded to 20c. to 21c. No change in bundled bark. Grinding bark firmer.

Soap.—Crushed slightly lower at 25c. to 27c. per pound. Other varieties very firm.

Beans

St. Ignatius.—Steady in price. Routine demand.

Tonka.—Consumption steady. Prices firm and under good control at origin. Quotations firm.

Vanilla.—Unsold spot stocks smallest ever. Practically no unsold whole Mexicans available. New crop to arrive near middle of year. Bourbons in strong foreign position. Italy a much larger buyer than normally. Future holds little hope for restoration of normal reserves. Shipments to this country slow in transit and much delayed. Transhipments to several carriers important factor in delay. Prices:—Bourbons, $5.75 to $6.25 per pound; whole Mexicans, $6, nominal; cuts, $5.50 to $6.

Price Changes

Advanced

Angelica root, imp., natural, 10c. per lb.
Belladonna root, 3c. per lb.
Black haw, root bark, 2c. per lb.
tree, 2c. per lb.
Buckthorn bark, 8c. per lb.
cut and sifted, 3c. per lb.
Calamus root, bleached, 10c. per lb.
Cascara bark, 1c. per lb.
Cassia, Saigon, 1c. per lb.
Juniper berries, 1c. per lb.
Larkspur seed, 20c. per lb.
Licorice root, bundles, 2c. per lb.
Mustard seed, California brown, ½c. per lb.
Pimento, ¼c. per lb.
Princes pine, 10c. per lb.
Quince seed, 10c. per lb.
Saffron, Mexican, 5c. per lb.
Senega root, 2c. per lb.
Tolu balsam, 5c. per lb.

Reduced

Anise, Star, ¼c. per lb.
Buchu leaves, 2c. per lb.
Camphor, natural, podw., 2c. per lb.
slabs, 2c. per lb.
tablets, 2c. per lb.
Cantharides, Russian, whole, 25c. per lb.
powdered, 10c. per lb.
Caraway seed, Dutch, ¼c. per lb.
Cardamom, bleached, 15c. per lb.
decorticated, 17c. per lb.
green, 7c. per lb.
Cassia, Batavia, No. 1, ½c. per lb.
Cassia buds, 1c. per lb.
Coriander seed, Morocco, ¼c. per lb.
Elm bark, powdered, 1c. per lb.
Gum arabic, sorts, 1c. per lb.
Lavender flowers, select, 5c. per lb.
medium, 5c. per lb.
Mustard seed, Roumanian yellow, ¼c. per lb.
Pepper, black, Lampong, ½c. per lb.
red, chillies, Japanese, ¼c. per lb.
Peppermint leaves, domestic, 3c. per lb.
Soapbark, crushed, 2c. per lb.
Tamarind, West Indian, 1c. per lb.
Thyme, 1½c. per lb.

Comparative Values

Index numbers compiled from forty typical botanicals on the basis of 100 for August 1, 1914, compare as follows:—

Last week.	Prev. week.	Last month.	Last year.
189.2	**188.7**	**183.3**	**119.6**

Market news that may have developed after this report was sent to press will be found on page 4.

Imports and Detentions

Entries of botanicals at the port of New York since the week of January 1, 1940, and the detention of these items by the Department of Agriculture because of the presence of matter rendering them unfit for human consumption were:—

	Bags Detained.	Bags Entered.
Anise	...	1,112
Belladonna	...	43
Caraway	...	7,425
Cardamom (cases)	...	29
Celery	...	2,390
Coriander	...	2,855
Cumin	83	1,711
Digiltalis leaves (cases)	1	1
Dill	...	74
Fennel	60	547
Henbane leaves (bales)	72	113
Mustard	300	892
Poppy	...	1,203
Sage leaves (bales)	...	459
Sesame	...	3,221
Stramonium	112	275
Thyme	...	244

Berries

Buckthorn.—Small stocks not quickly replaceable. Prices firm. Little trading.

Fish.—Demand sufficient to hold prices steady. Fair stocks.

Hawthorn.—No further shading. Market moderately easy.

Saw Palmetto.—Local market inactive. Prices apparently steady.

Flowers

Arnica.—Strength unabated. Price tendency upward. Fair but not large unsold spot stocks. Replacements uncertain.

Borage.—Business jobbing. Prices steady.

Calendula.—Fair movement in small

Current prices on botanical drugs and spices are given in the alphabetical list of prices beginning on page 7

WHAT'S IN A NAME?

Whatever you put into it!

It costs just as much to manufacture a low-test preparation as a high-test product. **And, in the last analysis, your name is judged by what you make it mean to the public. In purchasing the Botanical Crude Drug ingredients that go into your product, the most unalterably important thing you must consider is—*uniformity of quality*. If you choose not to compromise with this ideal, if you must be absolutely certain of your source of supply and the quality you can dependably expect from it, look into our facilities for meeting your strictest requirements. We have invested nearly 50 fruitful years in checking ourselves against your specifications. *Samples and quotations on request.***

The Earth Contributes
AND
J.L.HOPKINS & CO.
DISTRIBUTE
ALL KINDS OF ROOTS, BARKS, HERBS, GUMS, LEAVES & SEEDS, WHICH ARE USED FOR MEDICINAL PURPOSES; WHOLE, GROUND OR POWDERED
TRADE
MARK

J. L. HOPKINS & CO.

PROFESSIONALLY MILLED
ANALYZED—STANDARDIZED CRUDE DRUGS
220 BROADWAY • NEW YORK

GUMS

IMPORTERS
GUM ARABIC
GUM TRAGACANTH
LOCUST BEAN GUM
(CAROB FLOUR)
GUM KARAYA

NEW ENGLAND REP.
G. H. BUNTON
CAMBRIDGE, MASS.

PHILADELPHIA REP.
R. PELTZ & CO.
36 KENILWORTH ST.,
TEL: LOMBARD 6358

PAUL A. DUNKEL & CO., INC.
82 WALL ST., NEW YORK, N.Y. HANOVER 2-3750

ALGIN is SOLD

under several trade-names—

. . . . . depending on the required characteristics in each specific use—

ALGIN products

are used as thickening, emulsifying and stabilizing agents in

TEXTILE Printing
Cold Water PAINTS
BAKERY Fillings and CONFECTIONS
ICE CREAM
CHOCOLATE MILK
CONFECTIONERIES
CHEESE Processing
SALAD DRESSINGS
COSMETICS
LEATHER Dressings

in fact, wherever a hydrophilic colloid or gum-like material is required.

DUE to the large number of different products in which ALGIN is used, a wide variety of problems have to be met.

Depending on the specific characteristics required in each use, Algin products necessarily must vary in some degree in their chemical and physical properties. That is why there are a number of KELCO Algin PRODUCTS, such as:

DARILOID for Ice Cream
COCOLOID for Chocolate Milk
KELTEX for Textile Printing
KELGIN for Cosmetics
KELTOSE for bakery fillings and confections
BAKELOID for bakery products, and so forth

Each KELCO Algin PRODUCT is always uniform in quality and free from impurities.

Each Algin product is completely soluble in water in which it produces exceptionally high viscosity.

Your inquiries are invited.

KELCO
REFINED ALGIN PRODUCTS

KELCO Company

75 E. Wacker Drive, CHICAGO
31 Nassau St., NEW YORK
530 West 6th St., LOS ANGELES

AROSOL

HOW DO YOU EVALUATE THE PERFUME YOU PUT IN YOUR PRODUCT?

There are various ways in which it is usually done.

No. 1 Price per pound.
This can mean about anything. It is no index of value at all.

No. 2 Impression on smelling the oil either from a bottle or on a blotter.
This also is unreliable.
Many oils smell entirely different in the finished product.

No. 3 From the odor of the finished product directly after manufacture.
This also is deceiving as odorschange in the finished product with the passage of time.

No. 4 After the lapse of a sufficient period comparable to the time normally elapsing between the product shipment from your plant and its use by the ultimate consumer.
This is the only test. The only value you receive from money expended in perfuming your product is the value at the time of its ultimate consumption.

AROSOL is a universal fixative which insures a more lasting perfume in your product. This has been scientifically proven.

AROSOL is inexpensive and may be used in proportion of from 10 to 20% depending upon the type of odor. Its neutral balsamic aroma permits its use in all types of odors.

It is soap-fast and will not discolor.

AROSOL has been on the market for a number of years and these claims have been fully substantiated.

Its great value has been amply demonstrated by the rapidly increased list of satisfied users.

Requests for samples on your firm's letterhead and further informationwill be promptly furnished.

We recommend the following for use in Soaps, Fly Spray Deodorants, Air Purifiers, etc.

These are exceptional values—Odors which are infinitely finer than the price would indicate.

Spice, No. 2861	Incense, No. 2865
Lily of the Valley, No. 2862	Rose Geranium, No. 2866
Lilac, No. 2863	Mimosa, No. 2867
Jasmine, No. 2864	Eau de Cologne, No. 2905

AROMATICS DIVISION
GENERAL DRUG COMPANY
170 VARICK ST., NEW YORK TRANSPORTATION BLDG., LOS ANGELES, CAL.
9 SO. CLINTON ST., CHICAGO, ILL. 907 ELLIOTT ST. WEST, WINDSOR, ONT.

lots. Prices fairly stable. Competition inconsequential.

Lavender.—Still priced favorable for buyers. Trade slack. Competition continues active. Price lower. Select, 55c. to 60c. per pound; medium, 45c. to 50c.

Rose.—Quotations steady to firm.

Safflower.—Movement conservative. Prices steady to firm. Reserves fair.

Saffron.—Spanish flowers unsettled. No further decline in open quotations. Lack of normal trade weakens position. Mexican flowers higher at 40c. to 42c. per pound.

Gums

Arabic.—Sorts shaded to 13½c. to 14c. per pound with tendency still toward further shading. Sellers report more competition. Demand conservative.

Camphor. — Situation strong at source. Replacement cost high in Japan. Demand active. Shipments coming forward well sold ahead. Domestic synthetic production also well engaged. Raw material shows strength. Prices hold. Some shading of spot prices on Japanese goods due to presence of goods bought on the lower primary market of recent past. Powder and slabs quoted 83c. to 84c. per pound; tablets, 88c. to 89c.

Gamboge.—Price decline checked. Current trade steady in small lots.

Karaya.—Business routine in character but reaching good volume. Quotations fully firm.

Herbs and Leaves

Buchu.—New crop influencing spot prices Market shaded to 75c. to 80c. per pound. Trade dull pending further developments.

Peppermint.—Domestic lower at 32c. to 33c. per pound. Foreign firm and in light supply.

Princes Pine.—Acute scarcity reported. Prices higher at 25c. to 26c. per pound. Almost nominal. New crop some time away.

Miscellaneous

Cantharides.—Russian flies cheaper at $2.25 to $2.30 per pound for whole; powdered, $2.50 to $2.55. Chinese flies unchanged.

Ergot.—No further advance. Market strong. Few offers from Europe. Prices uniformly high.

Tamarind.—West Indian item shaded to 7c. to 8c. per pound.

Roots

Angelica.—Imported natural root advanced to 70c. to 75c. per pound.

Belladonna. — Situation concerning U.S.P. root acute. Market minimum at 35c. to 37c. per pound.

Calamus.—Bleached root brings $1 to $1.10 per pound. Scarce on spot.

Golden Seal.—Small lots available around $3.60 per pound, dealers. Round quantities held much higher, $3.80 being about minimum. Powder ranges $3.75 to $3.95.

Licorice.—Bundles higher at 27c. to 30c. per pound.

Senega.—Market 82c. to 88c. per pound. Tendency to make 85c. minimum in strong situation.

Turmeric.—No whole root offered. Powdered Alleppy selling at 13c. to 13½c. per pound.

Seeds

Anise.—Star a fraction lower at 15¾c. to 16¼c. per pound.

Caraway.—Dutch seed lower at 12¾c. to 13¼c. per pound.

Cardamom.—Market lower. Prices: Bleached, $1.25 to $1.35 per pound; decorticated, 83c. to 85c.; green, 72c. 75c.

Coriander.—Natural seed lower at 4¼c. to 4¾c. per pound.

Larkspur.—Acute shortage. Market higher at $1.10 to $1.15 per pound.

Mustard.—California brown seed up to 9¼c. to 9¾c. per pound. Roumanian yellow lower at 9¾c. to 10¼c.

Quince.—Sales at $1.10 to $1.15 per pound.

Spices

Cassia.—Batavia No. 1 lower at 16½c. to 17c. per pound. Buds off to 13½c. to 14c. Saigon higher at 16½c. to 17c.

Pepper.—Black Lampong shaded to 4.20c. to 4.40c. per pound. Japanese chillies about ¾c. per pound lower for shipment. Spot, fractionally lower at 20¼c. to 20½c. No other changes.

Trading in black pepper futures on the New York Produce Exchange from January 27 to February 2, inclusive, comprised 144 contracts, a total of 4,838,400 pounds. Following is a price record for the week:—

	Cents per pound		
	High.	Low.	Close.
January	4.34	4.34	4.24@4.32
March	3.94	3.89	3.85@3.87
April	3.94	3.94	3.90@3.93
May	4.06	3.95	3.93@3.97
July	4.13	4.08	4.02@4.05
September	4.19	4.16	4.10@4.13
October	4.18	4.13	4.15@4.17
December	4.34	4.27	4.26@4.27

Pimento.—A fraction higher at 16¼c. to 16¾c. per pound.

Entomology Study Planned

The Henry Clinton Fall Fund, for the promotion of the study of entomology, has been established at Dartmouth College, Hanover, N. H., in memory of the late Henry Clinton Fall, internationally known entomologist. Mr. Fall left a fund of $5,000 to the college, together with an additional bequest for immediate expenditures.

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Essential Oils, Aromatic Chemicals

Freezing Temperatures May Affect Florida Citrous Oil Output —No General Shortage Expected Since Other Sources Offer Liberally—Citronella Lower—Wormwood Up Sharply

The basic strength of essential oil and aromatic chemical prices was emphasized by the failure of prices to weaken notwithstanding the not broad demand. Sales volume continued moderate to conservative, being built mainly from a fair number of orders that usually involved conservative quantities of prompt delivery materials.

Prices were generally firm. Certainly with a single exception there seemed to be no item definitely unsettled or weak. The exception was citronella. Stocks of most articles were none too plentiful on spot. Foreign shippers to this market knew the value of their not large stocks and stood aloof from price shading while awaiting the expected revival of demand. Transport was still slow and uncertain. Increased air activity did nothing to turn freight rates and war risk insurance in favor of the importers. Altogether, the market was basically one of strength.

Manufacturing consumers apparently created a very fair sized reserve when they bought so heavily directly after the beginning of the European war. That would appear to account for the present lull in spot activity, but most dealers looked forward to a period in which revived demand would reach satisfactory proportions. That it would reach the volume attained in the last quarter of 1939 was uncertain.

Price Changes

Advanced

Wormwood, 25c. per lb.

Reduced

Citronella, Ceylon, 2c. per lb.
Java, 2c. per lb.

Comparative Values

Index numbers compiled from twenty typical essential oils on the basis of 100 for August 1, 1914, compare as follows:—

Last week.	Prev. week.	Last month.	Last year.
95.7	95.1	90.9	68.7

Market news that may have developed after this report was sent to press will be found on page 4.

Essential Oils

Amber.—Firm undertones. Demand quiet and routine. Reserves moderate.

Amyris. — Market conventional. Limited stocks and demand. Prices steady.

Angelica.—Stocks light, but sufficient. Further imports uncertain. Prices very firm.

Anise. — Irregular demand makes conservative total. Prices steady.

Apricot.—Very good request for small lots. Undertones and prices steady to firm.

Bergamot.—Market undertones show strength. Little change in recently conservative demand. Prices well maintained.

Birchtar. — No further advance. Market very firm. Little competition. Trade routine.

Bois De Rose.—Firm undertones locally. Primary market offers not increased. Demand steady but routine. Stocks moderate.

Cajeput. — Prices steady. Inquiry improved and sales gain. Little competition.

Camphor.—Strong market extended. No sign of change to improved situation. Prices close to nominal.

Caraway.—Steady demand for limited quantities. Prices reflect strength based on import cost and position.

Cassia.—Undertones very firm. Competition negligible. No large offerings from source. Local stocks in strong hands. Demand regular.

Cedarleaf.—Trading quiet but steady. Jobbing requirements filled promptly. Quotations firm.

Citronella.—Market lower. Prices:—Ceylon, drums, 41c. to 42c.; cans, 43c. to 44c.; Java, 40c. to 41c. Market easier in undertone. Conditions favor buyers.

Clove.—Good demand. Consumption running to excellent volume. Prices firm. Deliveries behind orders.

Erigeron.—Stocks low. Few can offer. Prices firm. Little call.

Eucalyptus.—Forward position unimproved. Offerings few. Prices high and firm. Eventual return of Spanish production may ease situation.

Geranium.—Business routine but of fair volume. Prices very steady.

Grapefruit.—Freezing temperatures in Florida may cut production. Market strengthened substantially.

Ginger.—Raw material steady. Oil prices hold firm. Demand along moderate lines.

Juniper. — Market strengthening again. Replacement costs tend upward. No competition locally. Fair demand.

Lavender.—Much lower prices not expected. No large lots offered from source. Stocks moderate at origin. Spot values firm.

Lemon.—Little change in market. Prices steady to firm. Demand level with normal for season. Expansion looked for.

Lime.—Competition in distilled oil active but declining. Prices solidify. Expressed oil firm. Demand routine but steady.

Nutmeg.—Prices show strength. Producers pushed to make prompt deliveries. Consumption excellent.

Orange.—Freezing weather in Florida may affect output there. Plentiful supplies from other sources assures no general shortage. Demand quiet within seasonal limits. Wider call expected.

Peppermint.—Market strength maintained. Little competition. Sellers somewhat reserved. Carryover to be moderate. Demand routine.

Petitgrain.—Source offerings light and irregular. Transportation slow. Situation makes for firm spot market. Demand light.

Pineneedle. — Recent arrivals supplied consumer needs. Prices steadier.

Sandalwood.—Steady market. Moderate but normal call. Prices show stability.

Sassafras.—Prices still about nominal. No stock surplus. Shipments from Japan uncertain. Import cost holds high.

Wormseed.—Prices still strong. Weakness unlikely to develop. Small stocks to prevail until new crop months away.

Wormwood.—Market higher at $5.85 to $6 per pound. Stocks very low. In hands of strong holders. Long time to new crop makes small reserve valuable.

Aromatic Chemicals

Acetaldehyde. — Small demand. Prices steady under light competition.

Acetophenone.—Some gain in inquiry. Sales up moderately. Prices very steady. Outlook good.

Amylphenyl Acetate. — Some improvement in demand. Inquiry up, also. Market undertones firm.

Benzaldehyde.—Market routine but steady. Consumers hold fair reserves. Prices well stabilized.

Benzyl Propionate.—Limited call. Mainly for prompt requirements. Market lacking in unsettlement.

Benzylidenacetone. — Improved interest maintained. Market undertones considerably firmer.

Bornyl Acetate.—Stocks moderate. Not more than jobbing interest at moment. Prices firm.

Hydroxycitronellal.—Business very good. No price unsettlement. Undertones firm.

Isobornyl Acetate.—Stocks in light reserve. Market narrow. Prices steady.

Isobutyl Acetate.—Demand hand-to-mouth. Steady prices suggest limited competition.

Isoeugenol.—Strength predominant due to raw material position. Demand about normal.

Linalool.—Trading routine but in fair volume. Prices well maintained.

Linalyl Acetate.—Offerings at $2 to $3 per pound. Raw material supplies not assured in normal quantities. Demand good.

Menthyl Salicylate.—Producers look forward to active season. Indicate probable price stability.

Methyl Acetophenon.—Inquiry improved. Quantities required gain some. Market generally firm.

Methyl Anthranilate.—Very good inquiry and sale at steady to firm prices.

Methyl Benzoate. — Less demand fails to weaken prices. General situation steady.

Methyl Cinnamate.—Demand routine and ordinary. Prices steady.

Methyl Heptenone. — Sales lag. Mainly jobbing. Market still steady.

Methyl Heptine Carbonate.—Sales at $28 per pound. Quantities taken routine. Undertones steady.

Methyl Hexyl Ketone.—Inquiry irregular. Sales moderate to light. Prices unchanged.

Musk. — Conditions favor buyers. Consumption conservative. No change in open quotations.

Paracresyl Acetate.—Prices hold steady, despite light call. Competition negligible.

Pelargol.—Fair quantities moved to soap perfume makers. Prices steady.

Phenyl Acetaldehyde.—Jobbing demand steady. Buyers purchase close to actual needs. Prices well held.

Phenylethyl Alcohol.—Trade strictly routine. Sellers provide excellent reserves. Prices quiet.

Current prices on essential oils and aromatic chemicals are given in the alphabetical list of prices beginning on page 7

IS PRICE AN OBSTACLE?
You can effect sizeable savings by substituting MM&R specialty odors for the more expensive oils you are now using . . . .
FOR THIS . . . . SUBSTITUTE THIS
Oil Sassafras Artificial . . . . . Perfume Oil 413
Oil Citronella . . ..Andro MM&R or Jerale MM&R
Oil Camphor Sassafrassy . . . . . Sass-O MM&R
Orange Blossom . . . . . Neroli Artificial
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Manufacturing Consumers
Importers and Distributors at first hands, not only in the United States and Canada but throughout the world, receive the Oil, Paint and Drug Reporter every week.

Phenylethyl Propionate. — Buyers' needs small. Sellers' reserves good. Prices lack movement.

Phenylpropyl Alcohol.—In good demand for small lots. Prices stabilized.

Phenylpropyl Aldehyde.—Consumption needs promptly met. Prices show stability and considerable strength.

Safrol.—Undertones strong. No surplus of stocks. Sellers reserved. Replacements difficult and slow, due to transport situation.

Styrolyl Acetate.—Business slow. Prices steady.

Terpineol. — Replacement costs strong. Unsold stocks conservative. Prices free from spot competition.

Terpinyl Acetate.—Seasonal demand very good. Prices firm.

Thymol.—No competition. Undertones firm to strong. Buying normal and reasonably active.

Vanillin.—Steady demand. Prices well maintained. Stocks plentiful.

Synthetic Methanol Output Up 8,224,530 Gallons in 1939

Production of synthetic methanol in 1939 rose 8,224,530 gallons over the output total in 1938, according to final statistics issued by the Bureau of Census, Department of Commerce. The output of crude natural methanol was 489,293 gallons higher. The total of wood carbonized in 1939 was 36,662 cords more than in 1938.

Monthly statistics production of crude and synthetic methanol, almost the entire output of commodities in the United States, released by Director William L. Austin, Bureau of Census, Department of Commerce follow:—

Production

	Gallons			
	*Synthetic.	Crude.	*Synthetic.	Crude.
Jan...	2,462,884	315,814	2,896,894	458,347
Feb...	2,267,339	336,117	2,299,609	408,930
Mar...	2,406,564	364,500	2,343,828	432,800
April..	2,276,385	389,423	1,975,999	314,664
May...	1,778,581	354,415	1,860,400	330,875
June..	2,295,288	343,992	1,629,570	293,091
July..	2,495,394	377,755	1,449,607	309,219
Aug...	2,678,983	359,594	1,897,847	281,988
Sept...	2,639,934	404,876	1,929,655	303,225
Oct...	4,158,161	463,420	2,294,552	335,380
Nov...	4,611,707	479,622	2,617,979	344,328
Dec...	4,184,479	434,021	2,844,249	357,249
Totals	34,253,699	4,659,589	26,031,169	4,170,096

* The refined equivalent would be approximately 82 percent of the crude production.

Wood Carbonized

	Cords	
	1939.	1838.
January	33,353	44,874
February	31,715	40,001
March	33,353	43,281
April	36,176	31,429
May	33,857	32,873
June	35,592	31,056
July	36,049	29,354
August	34,396	28,162
September	40,557	30,137
October	44,588	33,185
November	45,102	33,904
December	43,388	35,092
Totals	449,974	413,312

Dangerous Articles Cargo Rules Consolidation Sought

OPD Washington Bureau
January 31, 1940

Consolidation under the Secretary of Commerce of all regulations regarding the packaging and shipment of explosives and other dangerous articles for movement by water is proposed in a bill (H. R. 7,357) introduced by Representative S. O. Bland, of Virginia, chairman of the house committee on merchant marine. That committee held hearings on the bill this week.

At present such regulations are issued by the Bureau of Navigation and Marine Inspection of the Department of Commerce, by the Interstate Commerce Commission, and by various port authorities. A number of witnesses urged that water regulations be made uniform with those prescribed by the Interstate Commerce Commission for rail and truck shipments in order to avoid conflict where goods are transshipped. Opposition was based on the grounds of local sovereignty.

Drug, Cosmetic Credit Men Hear Talk on Salesmanship

More than 125 guests were present at the dinner meeting of the Drug, Cosmetic and Chemical Credit Men's Association, held January 26 in the Hotel Duane, this city. Charles Robinson, of the Phoenix Metal Cap Company, Brooklyn, presided. Prof. C. R. Jenkins, of New York University, was the principal speaker. He stressed personality, knowledge of product and a thorough background in the fundamentals of salesmanship. Stage and radio stars entertained.

Manganese Ore Bids Again Asked by U.S.

OPD Washington Bureau
February 1, 1940

The procurement division of the Treasury Department today issued a third invitation for bids for manganese ore in the program for building up reserve stocks of strategic war materials.

Bids are to be opened February 20 and ask for proposals on ferro grade of manganese ore of three different specifications, each containing a minimum manganese content of 48 percent. Bids are asked on quantities of 2,000 to 45,000 long tons f.o.b. cars United States Army Ordnance Depot, Curtis Bay, South Baltimore, Md., or c.i.f. Baltimore harbor, and on quantities of 2,000 to 15,000 long tons f.o.b. cars United States Army Ordnance Depot, Ogden, Utah.

Bids on manganese ore were opened by the procurement division October 19, and only one contract was let, to the Cuban American Manganese Company for 25,000 tons. Bids were also opened December 19, but all were rejected. On the first opening a contract was tentatively awarded to the Greenbriar Mining Corporation of West Virginia, but this company failed to furnish a performance bond and the award has been withdrawn. Tentative award of this contract caused considerable discussion in the trade inasmuch as the president of the Greenbriar corporation is Representative Andrew J. May of Kentucky, chairman of the house committee on military affairs which handled the legislation under which the purchases are being made. Representative May issued a statement this week declaring that he did not know that his company had submitted a bid; that he did not want it to have a government contract under the circumstances; and that bond would not be furnished in order that the company would not be given the contract.

Orbis Perfume Research Headed by W. H. Barlow

Orbis Products Corporation recently completed its perfume research laboratory at 215 Pearl street, this city. William H. Barlow, who joined the Orbis organization last July, is director of the laboratory and will be in charge of all perfume research and compounding. At the time of taking up his duties in this new position, Mr. Barlow completed twenty-five years in the essential oil industry. He has long been prominently identified as a perfume and essential oil chemist, having gained prominence in 1920 by winning a $1,500 prize in a perfume formula contest.

W. H. Barlow

W.B. Lawson Resigns From Harshaw Chemical

W. B. Lawson has resigned as a vice-president of the Harshaw Chemical Company, Cleveland. Mr. Lawson joined the Harshaw organization in 1930. Previous to joining the Harshaw Chemical, Mr. Lawson was for twenty-five years affiliated with the International Nickel Company, holding various executive positions with the company. He was general agent for the company when he resigned in 1930.

Steel Barrel Output Had Sharp Rise in 1939

Production of heavy type steel barrels and drums in 1939 totaled 12,188,005 as compared with 8,557,147 in 1938. Shipments in 1939 reached 12,158,445 as against 8,550,299 in 1938. Stocks on hand at the end of December totaled 61,251, against 32,696 at the end of December, 1938. Production of the light type in 1939 totaled 2,622,363, against 1,965,577 in 1938. Shipments totaled 2,592,129 in 1939, against 1,964,961 in 1938.

What You Can Use

Guide to Materials That Are Suitable for Various Purposes in Chemical Converting, Compounding, and Processing Industries

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Three-hundred-fourteenth Instalment

Ore Treatment

Flotation Agents for Concentrating Ores

(Continued from January 29 issue)

Potassium sulphide
Potassium xanthate
Pyridin
Pyridin acetate
Pyridin formate
Pyridin hydrochloride
Pyridin series compounds
Pyridin sulphate
Pyrites
Quinolin
Resin soap
Rosin
Rosin acids
Rosin oils
Rosin pitch
Sagetar oil
Salmon oil
Saltcake
Sand
Saponin
Seedlac
Shale oil
Shellac
Silicic acid solutions
Sludge sulphonic acid
Soap
Soap, insoluble
Soap, laundry
Soap, metallic
Soap, potassium
Soap, resin
Soap, rosin
Soap tallow
Soapbark
Sodium bicarbonate
Sodium bisulphate
Sodium carbonate
Sodium chloride
Sodium ethylxanthate
Sodium hyposulphide
Sodium hydroxide
Sodium laurate
Sodium monosulphide
Sodium nitrate
Sodium oleate
Sodium palmitate
Sodium phosphate
Sodium polysulphide
Sodium pyrophosphate
Sodium resinate
Sodium sesquicarbonate
Sodium silicate
Sodium stearate
Sodium sulphate
Sodium sulphide
Sodium sulphite
Sodium sulphobenzeneazobenzenebetanaphtholsulphonate
Sodium sulphydrate
Sodium tetrametaphosphate
Sodium thiosulphate
Sodium xanthate
Sperm oil
Steam
Stearic acid
Sudan dyes
Sulphobenzeneazobenzeneazo-2-naphtholsulphonic acid
Sulphur dioxide
Sulphur oils
Sulphur trioxide
Sulphuric acid
Sulphuric acid derivatives of alcohols
Sulphuric acid derivatives of fats
Sulphurous acid
Tallow
Tar
Tar acids
Tar oils
Tartaric acid
Taurocholic acid
Terpenes
Terpin hydrate
Terpineol
Tetramethylthiocarbanilide
Tetrazins
Thialdin
Thioaldehyde
Thioanilin
Thioamide compounds
Thiobisanilin
Thiocarbanilide
Thiocyanogen compounds
Thiouram disulphide
Thiourea
Tin xanthate
Titanium pyrophosphate
Tolueneazoresorcinol
Tolueneazoresorcinol sulphate
Toluidin
Tolylazoresorcinol
Tolylhydrazin
Tolylhydrazin hydrochloride
Tolylhydrazin sulphate
Triazin
Tribromphenylhydrazin
Tribromphenylhydrazin hydrochloride
Tribromphenylhydrazin sulphate
Turpentine
Tungsten solutions
Vegetable oils
Vegetable pitches
Water gas, carburated
Whale oil
Wood acids
Wood distillation oil
Wood oils
Wood pitch
Woodtar oil
Woodtar pitch
Xanthates
Xanthic acid
Xyleneazobetanaphthol
Xylidin
Xylylazo-2-naphthol
Zinc dithiocarbamate
Zinc 1-naphthyldithiocarbamates
Zinc sulphate
Zinc sulphide
Zinc xanthate

Oxidation and Reduction

General Oxidizing Reagents

Albone C
Ammonium persulphate
Anthrarobin (leucoalizarin)
Bromine
Calcium hypochlorite
Chromium trioxide
Copper chloride
Gallic acid
Hydrogen peroxide
Iodic acid
Iodic anhydride
Lead chromate
Manganese dioxide
Manganese sulphate
Mercury oxide
Perchloric acid
Periodic acid
Potassium bichromate
Potassium chlorate
Potassium chromate
Potassium persulphate
Sodium bichromate
Sodium chlorate
Sodium nitrate
Sodium perborate
Sodium permanganate
Sodium peroxide
Solozone

Metal Salts Used as Catalysts in Oxidation Reactions

Chlorinated and alkalinized aqueous solution of cobalt and iron salts
Cobalt chromite
Cobalt oxide
Copper chromite
Copper oxides
Copper-iron-manganese alloy
Iodine pentoxide
Iron chromite
Iron oxides
Manganese chromite
Manganese oxides
Metallic oxides
Nickel chromite
Nickel oxides
Oxidized pyrophoric metals

Oxidation and Reduction Reagents

Antimony
Arsenic
Arsenic trisulphide
Arsenous oxide
Barium peroxide
Barium peroxide, hydrated
Calcium
Calcium carbonate
Calcium hypochlorite
Calcium oxide
Chlorine
Chromium trioxide
Ferric oxide
Ferrous oxide
Ferrous-ammonium sulphate
Hydroferrocyanic acid
Hydrogen peroxide
Hydrogen sulphide
Iodine
Iron
Iron oxides
Lead peroxide
Manganese peroxide
Nitric acid
Nitrogen pentoxide
Nitrogen trioxide
Oxalic acid
Oxygen
Potassium bichromate
Potassium chlorate
Potassium chromate
Potassium ferrocyanide
Potassium iodide
Potassium nitrate
Potassium perchlorate
Potassium permanganate
Sodium chlorate
Sodium nitrate
Sodium thiosulphate
Stannous chloride
Stannous oxide
Sulphur dioxide
Tin

Paranitrobenzoic Acid

Catalysts Used in Production of Paranitrobenzoic Acid

Ammonium bichromate
Ammonium metavanadate
Ceric chromate
Ceric vanadate
Ceric-iron chromate
Chromium oxide
Chromium vanadate
Cobalt chromate
Cobalt molybdate
Ferric chloride
Ferric chromate
Ferric vanadochromate
Iron molybdate
Iron molybdochromate
Iron oxide
Nickel molybdate
Nickel vanadate
Nitric acid
Oxides
Palladium oxide
Vanadium oxide
Vanadium pentoxide

Petroleum Solvents Lubricants, Fuels

First Drastic Price Change in California Oil in Four Years —Kerosene and Heating Oils Strengthen—Gasoline Reduced in Two Sections

The first sweeping change in California crude oil prices since March 6, 1936, was made by one Pacific Coast company last week. Price policies for other companies were unchanged late last week. Lacquer diluent was weak in Group 3 and prominent sellers reduced quotations. Paraffin was a bit easier in all sections and was reduced in the Midcontinent. Kerosene and heating oils were advanced in Group 3 and gasoline was lowered throughout Ohio and the Gulf Coast. Natural gasoline was cut in Oklahoma. Solvents and diluents were routine with rubber solvent in heavy demand. White mineral oils and petrolatums were more quiet than heretofore.

Price Changes

Advanced

Kerosene, Gulf Coast, ⅛c. per gal.
Oil, fuel, Okla., 5c. per bbl.

Reduced

Gasoline, Gulf Coast, ⅛c. per gal.
Ohio, ½c. per gal.
Okla., natural, ½c. per gal.
Paraffin, crude scale, ⅛c. per gal., Okla.
Petroleum, crude, Cal., 4c. to 15c. per bbl.
lacquer diluent, ½c. per gal.

Market news that may have developed after this report was sent to press will be found on page 4.

Solvents and Diluents

Aromatic Naphthas.—Demand light, prices firm.

Cleaners' Naphtha.—Buying routine and price well maintained.

Lacquer Diluent.—Benzol type reduced ½c. per gallon to 7⅞c., and toluol type lowered ½c. to 7⅜c., both basis group 3.

Petroleum Thinners.—A bit more activity was reported and prices were firm.

Rubber Solvent.—Good demand at 9½c. per gallon.

V. M. & P. Naphtha.—Slight pick-up in demand. Quoted at 6⅞c. to 7c. per gallon.

Markets at Other Centers

Chicago—Feb. 1

Tone is good in principal grades of petroleum solvents and diluents. Paint materials are moving fairly well. Ruling prices in tankcar lots except as noted are (tankcar prices f.o.b. Group 3 Oklahoma):—Blending naphtha, 4¼c. to 4½c. per gallon; cleaners' naphtha, 6⅞c. to 7c., tankcar; 18c., tankwagon; petroleum spirits, 5⅞c. to 6c., tankcar; 16.7c., tankwagon; rubber solvent, 6⅞c. to 7c.; lacquer diluent, 7⅜c. to 7⅞c.; Stoddard solvent, 6⅜c. to 6½c., tankcar; 16.4c., tankwagon; V. M. & P. naphtha, 6⅞c. to 7c., tankcar; 17c., tankwagon.

New Orleans—Feb. 1

With few exceptions the market was quiet and routine. Quoted prices were as follows:—

CLEANING SOLVENT.—Boiling range 225-350, gravity 53, 6¾c., delivered New Orleans in tankcars.

V.M.P. NAPHTHA.—Boiling range 175-425, gravity 48, 6½c., delivered New Orleans in tankcars.

Tulsa—Feb. 1

With the exception of rubber solvent, the solvent and diluent market is still quiet. Prices, however, are holding well. Blending naphthas are affected by weakness in gasoline, with sales at 4¼c. to 4½c. per gallon. Other quotations are:—Rubber solvents, V. M. & P. cleaners' naphthas, 6⅞c. to 7c.; petroleum spirits, 5⅞c. to 6c.; Stoddard, 6⅜c. to 6½c.; and lacquer diluent, 7⅜c. to 7⅞c.

Lighter Fractions

Butane.—Heavy demand with prices strong at 3c. per gallon, basis group 3.

Heptane.—Unchanged at 11c. per gallon for car lots.

Propane.—Strong at 4c. per gallon, with demand heavy.

Petrolatum and Waxes

White Mineral Oils.—Domestic material still in satisfactory demand, with price firm and unchanged. Russian oil nominal.

Petrolatum.—Shipments during the week were at good level and price remained steady and unchanged.

Paraffin.—Crude scale nominal at 7c. per pound. Supply depleted. Refined grades strong and in heavy demand.

Chicago—Feb. 1

Refined wax seems to be holding its own without difficulty. Ruling prices are:—122-124, 6.10c. to 6.15c. per pound; 125-127, 6.10c. to 6.15c.; 127-129, 6.35c. to 6.4c.

Tulsa—Feb. 1

Quotations on paraffin are easier, as shipments have declined somewhat during the past two weeks. The American crude 124-26 grade is quoted at 6c. to 6¾c. per pound. One offering was reported of multiple carload lots of 124-126 crude scale at 5c. per pound, group 3 basis.

Fuels and Lubricants

Gasoline.—Trade was dull, but quoted prices were maintained. Ohio Standard reduced prices ½c. per gallon throughout that State.

Kerosene.—Firm at 5.6c. to 6c. per gallon, with demand good.

Fuel and Gas Oils.—Bunker fuel oil strong at $1.50 per barrel. Heating oils strong and in heavy demand.

Lubricating Oils.—Pennsylvania bright stocks and neutrals strong and sales limited.

Crude Oil Price Changes

Standard Oil Company of California reduced prices 4c. to 15c. per barrel, depending upon gravity, throughout that State.

Markets at Other Centers

Chicago—Feb. 1

Gasoline is beginning to show some signs of stablization of price. Call for burner oils has been at a new high record for weeks and the market for all these oils is strong. Heavy fuel oils are holding strong and lubricants have shown some easing.

GASOLINE.—Low octane motor, 3¾c. to 4c. per gallon; 63-66, 4c. to 4⅛c.; 67-69, 4¼c. to 4⅝c.; 70-72, regular, 4½c. to 4⅞c.; 60-62, 400, 3¾c. to 4⅛c.; 64-66, 375, 4c. to 4¼c.; 68-70, 360 4⅝c. to 5c.

KEROSENE.—42-44, water white, 3⅞c. to 4c. per gallon; 41-43, 3¾c. to 3⅞c.

FURNACE OILS.—Range oils, 3¾c. to 3⅞c. per gallon; No. 1 white, 3¾c. to 3⅞c.; No. 1 straw, 3⅝c. to 3¾c.; No. 2 straw, 3½c. to 3⅝c.; No. 2 dark, 3⅜c. to 3½c.; No. 3, 3⅜c. to 3½c.; 32-36, dark, industrial gas oil, 2⅝c. to 2⅞c.

New Orleans—Feb. 1

Gasoline prices reflected a ⅛c. drop during the past week, while the price of kerosene advanced ⅛c. U. S. motor gasoline was quoted at 5¼c.; 63-67 octane at 5⅝c., and 70-72 octane at 6⅛c., all prices being based on a per-gallon rate at refinery.

The ⅛c. advance on kerosene brought the current price quotation to 7⅜c. per gallon at refinery.

Bunker C fuel oil was quoted at 90c. per barrel at terminal, and 95c. per barrel delivered alongside, while industrial plants were quoted on this grade at $1.36 per barrels, delivered alongside.

Tulsa—Feb. 1

This week there have been scattered advances in heating oils ranging from 5c. per barrel to ¼c. per gallon. The No. 2 and No. 3 distillates have generally been advanced ⅛c. per gallon, although one large refiner advanced ¼c. In other departments prices are unchanged with the exception of wax, which receded slightly.

GASOLINE.—Third grade, 3c. to 4c. per gallon; 63-66, 3¼c. to 4¼c.; 67-69, 3½c. to 4⅜c.; while highest octanes are 3⅞c. to 4½c.

NATURAL GASOLINES.—The 26-70 grade is 2c. per gallon in Texas, and 18-55 is 2⅜c. to 2½c. In Oklahoma, 26-70 grade, 2c. to 2¼c. per gallon, and 18-55, 2½c. to 2¾c.

KEROSENE.—Stronger with 41-43 degree grade at 3¾c. to 4¼c. per gallon, and 42-44 at 3⅞c. to 4⅜c.

FEUL OILS.—Residuals were quoted at 55c., while most refiners are asking 65c. to 70c. In Illinois, lowest grades are 85c. In group 3 the 18-22 is 75c. to 85c., while 22-28 is 85c. to 95c.

Petroleum Production—Motor Fuel Stocks

	Barrels	
	1940	1939
	Jan. 1-Feb. 3	Jan. 1-Feb. 3
Commercial crude oil production	121,791,024	113,280,593
	Week ended Feb. 3, 1940	Week ended Feb. 4, 1939
Daily average production	3,613,566	3,238,407
	Week ended Jan. 27, 1940	Week ended Jan. 20, 1940
Estimated motor fuel stocks	87,914,000	85,880,000
Estimated finished motor fuel stocks	81,855,000	80,181,000

Outputs and Quotas

A comparison of Bureau of Mines calculations for January productions, State allowable quotas where they exist and the American Petroleum Institute's estimate for crude production for the week ended January 27 follows:—

	*B. of M. Dept. of Int. calculations.	State allowable.	Estimated output.
Oklahoma	433,900	433,900	†417,600
Kansas	160,600	160,600	†167,750
Nebraska	.....	.....	†100
Texas	1,411,000	‡1,376,320	1,366,900
Louisiana	254,200	268,192	273,400
Arkansas	59,700	70,000	69,900
Mississippi	.....	.....	†4,550
Illinois	314,800	.....	356,200
Indiana	3,900	.....	†5,100
Eastern	96,800	.....	90,250
Michigan	61,000	.....	63,800
Wyoming	58,700	.....	64,600
Montana	15,400	.....	17,600
Colorado	3,900	.....	3,700
New Mexico	101,900	101,900	101,050
California	593,900	§599,000	609,100
Totals	3,569,700	.....	3,611,600

* These are Bureau of Mines' calcuations of the requirements of domestic crude oil based upon certain premises outlined in its detailed forecast for the month of January. As requirements may be supplied either from stocks, or from new production contemplated withdrawals from crude oil inventories must be deducted from the Bureau's estimated requirements to determine the amount of new crude to be produced.

† Oklahoma, Kansas, Nebraska, Mississippi and Indiana figures are for week ended 7 a. m. January 24.

‡ This is the net basic allowable as of January 1 and reflects ordered shutdowns for 13 days, namely January 3, 6, 7, 10, 13, 14, 17, 20, 21, 24, 27, 28 and 31. Experience indicates that due to allowables granted above net scheduled exemptions and also because of new wells completed, the basic net allowable as of the first of the month is always subject to upward revision.

§ Recommendation of Central Committee of California Oil Producers.

The State of the Petroleum Market

Gasoline was reduced ⅛c. in the Gulf coast. The crude oil reduction in California did not change these figures.

	Feb. 2	Jan. 26	Last Year
Crude petroleum prices at well (average for ten fields) per barrel	$1.2095	$1.2095	$1.135
Gasoline prices at refineries (at four refining centers) per gallon	.0507645	.0510770	.0478125

Current prices on petroleum and its products are given in the alphabetical list of prices beginning on page 7

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Crude Oil Daily Output Down

Daily average crude oil production in the United States during the week ended January 27 was 3,611,600 barrels, a decline of 25,850 from the 3,637,450 in the previous week, according to the American Petroleum Institute. A decline of 11,000 barrels in the daily average output of California was the most important change. Stocks of finished and unfinished gasoline at the close of the week were 87,914,000 barrels, a new high, and 2,034,000 above the 85,880,000 a week earlier. A year ago these stocks amounted to 78,461,000 barrels. Finished gasoline stocks were up 1,674,000 barrels to 81,855,000, compared with 72,828,000 on Jan. 27, 1939. Stocks of gas oil, distillates and residual fuel oil at terminals, in pipelines, at refineries and in transit at the end of the week were 130,422,000 barrels, against 133,470,000 a week before and 149,170,000 a year ago.

Elk Hills Recapture by U.S. Upheld by Supreme Court

OPD Washington Bureau
January 29, 1940

The Supreme Court of the United States today declined to review a decision of the United States Circuit Court of Appeals for the Ninth Circuit upholding the right of the Federal government to the famous and much-litigated "section 36" of the Elk Hills naval petroleum reserve in California. The circuit court directed the Standard Oil Company of California to surrender possession and pay damages of $6,214,102 for use of the land and severance of its oil resources.

Hospital Appropriation Asked by President

—Continued from page 3

recommend it for careful study by the Congress.

Conditions described a year ago are substantially unchanged today. There is still need for the Federal government to participate in strengthening and increasing the health security of the nation. Therefore, I am glad to know that a committee of the Congress has already begun a careful study of health legislation. It is my hope that such study will be continued actively during the present session, looking toward constructive action at the next. I have asked the Interdepartmental Committee to Co-ordinate Health and Welfare Activities to continue its studies.

In order that at least a beginning may be made I now propose for the consideration of the Congress a program for the construction of small hospitals in needy areas of the country, especially in rural areas, not now provided with them.

He proposed an appropriation of between $7,500,000 and $10,000,000 to construct and equip approximately fifty hospitals costing between $150,000 and $200,000 each. These hospitals would be built entirely at Federal expense and would be owned by the Federal government, but would be operated by local interests. He proposed that they be located on the basis of need in communities now lacking such facilities.

Dr. William J. Hale, research consultant of Dow Chemical Company, Midland, Mich., will be the guest speaker at a dinner meeting of the Commodity Club of New York in the Park Central hotel, February 8.

Fertilizer Materials

Milder Temperatures Appear in South But Fail to Stimulate Fertilizer Market — Blood and Tankage Continue Downward — Cottonseed Meal Reduced

Milder temperatures appeared in Southern sections of the country in the middle of last week but failed to stimulate markets for raw fertilizer materials. Crops were still suffering from the siege of extreme cold and snow and consumers showed no inclination to think about future planting. As a result, most markets continued in a stagnant condition and further reductions were made.

Blood and tankage prices continued to sag with the former lowered in New York, Chicago and for import. Cottonseed meal, which for several previous weeks had been very firm, felt the sting of the weather and producers were forced to drop the price. Nitrate of soda and sulphate of ammonia were strengths in the market but only because of a slight pick-up in shipments to the trade. Potash suppliers remained optimistic about the future, with domestic producers expecting a sharp upturn in sales due to the curtailment of German supplies. Meanwhile, the Department of Commerce reported that Germany planned to offset the loss of the United States market by lowering prices and concentrating on stimulating sales in Austria, Western Poland, and various other Reich protectorates.

Price Changes

Advanced

None

Reduced

Blood, dried, 5c. per unit, f.o.b. N. Y. high-grade grd., 15c. per unit, f.o.b. Chi.
imported, 10c. per unit, c.i.f. ports.
Cottonseed meal, 50c. per ton, Southeast mills.
Tankage, unground feeding, 15c. per unit, f.o.b. N.Y.

Comparative Values

Index numbers compiled from four typical fertilizer materials on the basis of 100 for August 1, 1914, compare as follows:—

Last week.	Prev. week.	Last month.	Last year.
67.0	67.0	67.0	66.3

Market news that may have developed after this report was sent to press will be found on page 4.

Nitrogenates

Ammonia Nitrate Lime.—Quoted at $28.50 per ton, ex vessel Atlantic or Gulf ports for February delivery.

Calcium Nitrate.—No shipments arriving from Norway.

Castor Pomace.—Firm at $17.50 for domestic and $20 per ton for imported. Little interest in offerings.

Dried Blood.—The New York price was lowered 5c. per unit to $3.35. High-grade ground material was reduced 15c. in Chicago to $3.50 per unit. Imported product was lowered 10c. per unit to $3.30.

Fish Scrap.—Chesapeake Bay factories inactive. Japanese sardine meal unchanged at $51 per ton.

Manganese Sulphate.—Steady at $52 per ton for car lots and $59 to $62.75 for smaller lots.

Nitrate of Soda.—Shipments still light but price unchanged at $27 per ton for car lots.

Nitrogenous Material. — Quoted at $2.90, East Coast and $2 per unit in Midwest. Imported, $2.60. Demand light.

Sulphate of Ammonia.—Shipments continued light and irregular with price firm at $28 per ton.

Tankage. — Unground feeding reduced 15c. in New York to $3.25 and 10c. per unit.

Potashes

Cottonseed Hull Ash. — Demand light but price steady at $1.10 per unit.

Kainit.—Firm at $12.25 per ton in bulk with demand at prior levels.

Manure Salts.—Little interest in offerings but prices firm at 58½c. per unit for domestic and $17.55 per ton for imported.

Muriate.—Deliveries covered small orders only. Price firm at 53½c. per unit for domestic and $26.75 per ton for imported.

Sulphate. — Imported, steady at $36.25 per ton in bags.

Phosphates

Bone Materials.—All grades fairly firm, although demand was no better than during the previous week. Prices continued unchanged.

Phosphate Rock.—Sales volume light during the period under review but prices remained firm.

Superphosphate. — Quiet with price steady at $8.50 per ton for run-of-pile material and $9 for 16 percent guaranteed.

Sulphur and Pyrites

Agricultural sulphur continued to move slowly and even inquiry for the future fell off somewhat. Despite this, however, there was no evidence of weakness in the price and quotations remained firm and unchanged.

Markets at Other Centers

Atlanta—Feb. 1

The record breaking cold weather that invaded the South is just beginning to relax its rigors. The weather has been disastrous to early vegetables and replanting of many crops is expected. Except for a 50c. reduction in cottonseed meal, inquiries with only light trading is reported in the Southern fertilizer material market. Quotations of leading materials are as follows:—

SUPERPHOSPHATE.—52 cents per unit, interior producing points.

NITRATE OF SODA.—$27 per ton, port basis.

SULPHATE OF AMMONIA.—$28 per ton, port basis.

COTTONSEED MEAL.—8 percent grade, $31.50 to $32 per ton, Southeastern mill points.

NITROGEOUS.—$2 per unit, Midwest; foreign, $2.60 per unit, ports.

BLOOD.—$3.50 per unit, basis Chicago; foreign, $3.30, c.i.f.

TANKAGE. — South American, c.i.f. southern ports, $3.50 per unit.

BONE.—Ground steam bone meal 3 and 50, $32 per ton, Chicago.

Baltimore—Feb. 1

Continuance of heavy frost during the early part of the week limited buying, with figures named about as follows:—

FISH SCRAP.—Menhaden meal developed a fair demand at $59 per ton in car lots, f.o.b. Baltimore, and Japanese sardine meal was selling at $52.

DRIED BLOOD.—Dull. Domestic material was quoted at $3.35 f.o.b. shipping point, with South American stocks at $3.30.

SUPERPHOSPHATE.—Nominal figures stood at $8.50 per ton for run-of-pile and $9 for guaranteed 16 percent.

Chicago—Feb. 1

Fertilizer materials are in a steady market position, with prices fluctuating slightly. Blood demand has been fairly good. Material offered has kept within moderate amount, in keeping with the quiet status of demand. The result is a price structure with little current change. Tankage market activity is fair. Bone materials are routine with most buyers interested in covering their immediate requirements only.

Current prices on fertilizer materials are given in the alphabetical list of prices beginning on page 7

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BLOOD.—Principal grade, $3.50 per unit of ammonia.

TANKAGE.—High grade, feeding, $3.75 and 10c.; hoof meal, $2.75 to $3; liquid stick, $2.50 to $2.60.

BONE MATERIALS.—Ground, steamed bone, 1¼ and 60 percent, $29 to $30; 3 and 50 percent, $32; 4½ and 50 percent, $32 to $33; grinding hoofs, pigs' toes and waste horn materials, $40 to $45; cattle jaws, skulls and knuckles, $34 to $35; pork cracklings, soft pressed, $50 to $55; beef cracklings, soft pressed, $40 to $45; hard pressed cracklings, per unit of protein, 77½c. to 82½c.

San Francisco, Feb. 1

Fertilizer trade is in a stage of almost complete suspension. Both buyers and sellers agree there is no activity in the market at all. Ruling quotations are:—

SULPHATE OF AMMONIA.—Sellers have withdrawn from the market.

SUPERPHOSPHATE. — Domestic, 75c. per unit in bulk, f.o.b. San Francisco Bay. Bags, 85c. per unit. Foreign material nominal.

NITRATE OF SODA.—100-pound bags, $29 per ton, ex vessel or warehouse; 200-pound bags, $28.30 per ton, ex vessel or warehouse.

FISH MEAL.—Steady. California sardine meal is $53.50 to $54.50 per ton, f.o.b. San Francisco Bay, and $52.50, Monterey.

TANKAGE. — Unground, fertilizer grade, wet rendered, domestic, $3.35 and 10c. per unit-ton, nominally, f.o.b. cars, northern California. Dry rendered, ground, $47.50 per ton, f.o.b. cars, South San Francisco; unground, dry rendered, 75c. per unit of protein, f.o.b. cars, South San Francisco.

BLOOD MEAL.—Nominal. Quoted on the basis of $3.10 per unit, f.o.b. cars, Los Angeles.

National Fertilizer Board Established by Chile

The desire of the Chilean government to develop the production and use of fertilizer materials has been manifested on numerous past occasions. A law recently passed by the Chilean Congress creates a "Consejo de Fertilizantes" which will function as a National Fertilizer Board. This board presumably supersedes and takes the place of a "Fertilizer Commission" which was created in February, 1939, according to advices to the Department of Commerce. The law is quite sweeping in concept and gives the board absolute power to regulate the production, sale and use of fertilizer materials in Chile. These regulations will apply to all imported fertilizers, as well as the national products.

British Ammonia Sulphate Report Omits Nitrogen Data

The annual report for 1938-39 of the British Sulphate of Ammonia Federation does not contain the usual statistics regarding world nitrogen, according to an announcement by the federation. For this reason, the federation explains, the annual report is being circulated to members only. However, in its notice regarding the change in procedure of distribution of its report, the federation states that when copies of the report again contain statistical surveys they will be available to the public.

Chemical imports into Panama total about $1,200,000 annually, over one-half of which originates in the United States.

Obituaries

Robert P. Hayden

Robert P. Hayden, who retired November 1, 1939, as vice-president of Johnson & Johnson, manufacturer of surgical supplies, New Brunswick, N. J., died January 29 in a hospital in Baltimore. He was sixty-four years of age.

Mr. Hayden was graduated from the University of Maryland and joined Fraser & Co., New York, as a pharmacist. He later joined Squibb & Co., and in 1923 became associated with Johnson & Johnson. He subsequently became general superintendent of that organization and finally vice-president in charge of manufacturing operations. Surviving is his wife.

Henry Thomas Hicks

Henry Thomas Hicks, president of the Capudine Chemical Company, Raleigh, N. C., died in a hospital there January 24 after a prolonged illness. He was seventy-three years of age. Identified with the drug industry in the South for more than fifty years, Mr. Hicks developed the formula for the nationally known headache remedy, "Capudine." In 1904 the present Capudine company was incorporated, of which Mr. Hicks was president and chemist. Surviving are his wife and two sons.

Fred R. Lockwood

Fred R. Lockwood, president of the Lockwood Chemical Company, Buffalo, died of a heart attack January 25. Mr. Lockwood came to Buffalo from Detroit in 1929 and launched the Hamburg Chemical Company in 1931. It is now the Lockwood Chemical Company. Mr. Lockwood for the last two years had devoted his entire time in organizing the Universal Research Corporation, dedicated to chemical inventions. Surviving are his wife and a son.

Hugh J. McKane

Hugh J. McKane, manager of the New Orleans office of the Stein, Hall Manufacturing Company, Chicago, was killed on January 18 when his car crashed into a freight train in a heavy snowstorm at Ruston, La. He was fifty-six years of age.

Mr. McKane joined Stein-Hall twenty-eight years ago after handling its St. Louis accounts as a broker. He opened the St. Louis office, then worked out of Cincinnati for two years before taking charge of the Cleveland office. Later he became salesmanager in Chicago, opened the Detroit office, traveled out of the New York headquarters of Stein, Hall & Co., Inc., and then returned to the Chicago company to cover the Southern territory.

Surviving are his wife, three sons and a daughter.

Dr. Ralph Daniel Reed

Dr. Ralph Daniel Reed, widely known geologist, died in Pasadena, Calif., January 29. He was fifty years of age. Mr. Reed, who since 1930 served as chief geologist for the Texas Company, was credited with early recognition of the Kettleman Hills oil possibilities. He was a former president of the American Association of Petroleum Geologists. Surviving are his wife, two daughters and a son.

Lloyd L. Storey

Lloyd L. Storey, trade sales manager for the Glidden Company, paint manufacturer, Cleveland, died January 20, after a sudden illness while on a sales convention trip to New Orleans, La. He was forty-four years of age.

Mr. Storey, a native of Vickery Ohio, had just recently been promoted to trade salesmanager, after having been with the company since 1921. He had served for ten years as manager of the company's retail stores. Surviving are his wife, two sons and a daughter.

Matthew Beardwood, professor of chemistry at Ursinus College, Collegeville, Pa., died in a hospital in Philadelphia January 29. He was sixty-eight years of age.

Gustav A. Brenke, pharmacist for the Lambert Pharmacal Company, St. Louis, since 1927, died January 14 after a long illness. He was a native of Germany and was seventy-four years old. He left a widow, a son, and two daughters.

Dr. James Moreau Brown, since 1926 medical director of the physiological laboratories of Reed & Carnrick, Jersey City, died January 30 of lobar pneumonia after a day's illness. Surviving are his wife and a son.

Prof. Sir Gilbert Morgan, until recently director of chemical research at the government laboratories in England died in London February 1. He was sixty-nine years of age.

Sherman L. Davis, professor of chemistry at Indiana University for thirty-five years, died in Indianapolis February 1. He was seventy-five years of age.

Dr. Alviso Burdette Stevens, for many years an authority on pharmaceutical affairs and former dean of the College of Pharmacy, University of Michigan, died January 25 in Escondido, Calif. He was eighty-six years of age.

John B. Tonkin, for many years prominent in the Pennsylvania oil and natural gas industries, died January 27 of influenza in Miami Beach where he was spending the winter. He was sixty-four years of age.

Coale Heads I.P. Thomas Co.

James S. Coale has been named president of I. P. Thomas & Son Company, fertilizers, Camden, N. J., to replace the late Henry H. Lippincott. Other company officials named to new posts were Raymond R. Hall, vice-president in charge of manufacturing; L. Preston Thomas, vice-president in charge of sales; S. Robinson Coale, treasurer; Heulings Lippincott, secretary, and Walter C. George, comptroller.

Fish Oilcake Is Dutyfree

Fish oilcake and scrap are free of duty as materials used chiefly for fertilizer, the United States Court of Customs and Patent Appeals has decided in a case brought by the Wilbur-Ellis Company and others. The fish oilcake was imported at West coast ports and was assessed with duty of 10 percent ad valorem as waste. The government contended that the article in the form imported could not be used as fertilizer, but the court held that, since its only use as far as the record showed was for grinding into meal for fertilizer purposes, the cake itself is free of duty as a material used chiefly for fertilizer.

Research Promotion Attracts Attention

—*Continued from page 5*

formation, as an aid to industry. Bert H. White, vice-president of the Liberty Bank of Buffalo and director of the Research Advisory Service, described various types of concrete problems submitted by manufacturers and business men and reported on the assistance which research laboratories have given industry to improve products or reduce costs. Merrill Anderson told of the banks' progress in making the clearing house known to industries and stimulating the use of the laboratories' knowledge by small and medium concerns without expense to them and without duplicating the facilities of existing agencies.

The objectives of this group were summarized by Mr. Holland as follows:—

While appreciation of the importance of research is developing at a rapid pace, there is still an enormous amount of work to be done in fostering research throughout the whole fabric of American business. Already a few progressive banks, with the wholehearted cooperation of many scientists in industry, have accomplished a great deal. We look forward to an extension of this work which should, in time, materially contribute toward improvement of living standards and reduce the mortality rate among manufacturing concerns. Meetings of this character will be held periodically to interpret the broad trends in science and keep the Research Advisory Service molded to these trends, as well as to the practical demands of industry.

Research as a Resource

The study of research in which the Department of Commerce is joining, will run concurrently with a similar undertaking on research by industrial laboratories under the guidance of the National Academy of Sciences. The results of these two studies will constitute part II and part III, respectively, of the report by the science committee of the National Resource Planning Board on "Research—A National Resource."

Dr. John H. Cover, professor of Statistics at the School of Business, University of Chicago, has obtained leave of absence to direct the study. The Department of Commerce and the National Resources Planning Board are contributing personnel and funds for the project.

The project calls for an analysis in a limited number of firms of the business research work, methods, facilities, and organization, application of results, dissemination of information, and opportunities for research personnel. It also includes the preparation of a directory of business concerns and organization which undertake business research. Among the fields of research to be covered by the survey are:—

1. Production:—Sources and prices of materials; production cost analysis; time, motion, and fatigue studies; and purchasing problems.
2. Marketing:—Consumer attitudes; market potentials and sales quotas; distribution costs; pricing; credit and collections; trading areas; advertising; warehousing and transportation.
3. Finance:—Financing methods and operations; dividend policies; credit sources; and costs.
4. Personnel and industrial relations:—Aptitude and attitude studies; wage, employment, and retirement plans; employee organizations and activities.
5. Economic conditions:—General price structure; trade and production changes; and income estimates.
6. Business: — Government interrelations and public relations.

Limestone Products Corporation of America, Newton, N. J., directorate has authorized issuance of $391,800 of 50-year 3½ percent debentures, due June 15, 1989, in exchange for the outstanding 7,836 shares of $50 par preferred stock on the basis of $50 of debenture bonds for each share of preferred.

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Natural Potash Nitrate
Natural Iodine

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Shipping Information

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ACID, CRESYLIC—90 dms, New York Trust Co, Sydney
OLEIN—1 pkg, Hercules Powder Co, Rotterdam
STEARIC—171 bgs, Chemical Bank Trust Co, Rotterdam
ALTHEA ROOT—10 bgs, J L Hopkins & Co, Trieste
AMMONIA, PERSULPHATE—100 bbls, Mercantile Import & Export Co, Rotterdam
SULPHOCYANIDE — 16 cks, Mercantile Import & Export Co, Antwerp
ANISE—25 cs, Wah Chang Trading Corp, Hongkong
ANTIMONY—396 bgs, Vera Cruz
ARECA NUTS—113 bgs, R J Prentiss & Co, Singapore
113 bgs, M R Ziegler, Singapore
ARTISTS' MATERIAL—3 cs, Talens & Son, Rotterdam
ASBESTOS—425 bgs, Johns-Manville Corp, Capetown
FIBER—1,932 bgs, Union Asbestos & R Co, Capetown
BARYTES—1,361 bgs, Smith Chemical & Color Co, Venice
BEARBERRY LEAVES—59 bls, S B Penick & Co, Genoa
BEEF LIVER EXTRACT—9 pkgs, Milton Snedeker Co, Havana
BELLADONNA LEAVES—9 bls, Guaranty Trust Co, Trieste
7 bls, J L Hopkins & Co, Trieste
3 bls, S B Penick & Co, Trieste
BIRCH TAR—12 dms, Fritzsche Bros, Copenhagen
BLEACHING POWDER—305 dms, Kobe
BONE MEAL—1,800 bgs, Buenos Aires
BONES—876 bgs, Buenos Aires
BRISTLES—10 cs, New York & Cuba Mail S S Co, Vera Cruz
10 cs, M Broverman & Son, Kobe
40 cs, N Wagman & Co, Hongkong
28 cs, H Rosenhirsch Co, Shanghai
20 cs, Lindsay Trading Corp, Shanghai
5 cs, Pittsburgh Plate Glass Co, Shanghai
57 cs, N Wagman & Co, Shanghai
110 cs, H Rosenhirsch Co, Kobe
25 cs, Robert Schwatz, Kobe
CARAWAY SEED—67 bgs, Catz American Co, Rotterdam
100 bgs, Rotterdam
500 bgs, R L Friedler, Rotterdam
100 bgs, J Pechman, Rotterdam
100 bgs, S Davids & Co, Rotterdam
100 bgs, D Hecht, Rotterdam
300 bgs, Levy & Levis Co, Rotterdam
CARDAMOM — 2 cs, W E Martin, Puerto Barrios
CASEIN—57 bgs, Chase National Bank, Antwerp
976 bgs, American British Chemical Supplies, Montevideo
1,668 bgs, American British Chemical Supplies, Buenos Aires
2,617 bgs, Balfour, Guthrie & Co, Buenos Aires
417 bgs, Chase National Bank, Buenos Aires
2,359 bgs, American British Chemical Supplies, Buenos Aires
CASSIA—100 bls, G L Curtin Co, Hongkong
252 bls, Wah Young Co, Hongkong
BROKEN—100 bls, Wah Young Co, Hongkong
CASTOR BEANS—850 bgs, Spencer Kellogg & Sons, Pernambuco
2,801 bgs, L Dreyfus & Co, Pernambuco
2,517 bgs, Baker Castor Oil Co, Pernambuco
CELERY SEED—152 bgs, Bombay
CHAMOMILE FLOWERS — 50 cs, Brown Bros-Harrimann Co, Trieste
15 cs, 34 bgs, Guaranty Trust Co, Trieste
CHARCOAL—1,200 bgs, Central Union Tilo, Balik Papan
410 bgs, W I Chudleigh, Rotterdam
CHEMICALS—55 cs, Michel Export Co, Rotterdam
8 cs, E I Du Pont de Nemours Co, Rotterdam
6 bbls, C Bruning, Rotterdam
100 bgs, Hummel Chem Co, Bordeaux
CINCHONA BARK—100 bls, New York Quinine & Chem Works, Rotterdam
PRODUCTS—(Correction). In the issue of January 22, the Transatlantic Animal By-Products Corp. was erroneously credited with 120 dms
CINNAMON—150 bls, Carr Bros, Colombo
100 bls, I Harrison & Whitney, Colombo
QUILLS—200 bls, C T Wilson & Co, Colombo
COBALT OXIDE—44 kgs, Central Trading Corp, Mantyluoto
COCOA BEANS—1,200 bgs, Curacao Trading Co, Macoris
1,152 bgs, Curacao Trading Co, Sanchez
776 bgs, Curacao Trading Co, Puerto Plata
374 bgs, Curacao Trading Co, Trujillo
699 bgs, Chase Natl Bank, Lisbon
500 bgs, Semarang
470 bgs, Balfour, Guthrie & Co, Semarang
500 bgs, Wood & Selick, Trinidad
200 bgs, W R Grace & Co, Trinidad
500 bgs, Antoni & Co, Campano
560 bgs, Juan Franceschi, Campano
600 bgs, Bannode-Venezuela, Campano
500 bgs, Campano
500 bgs, Banco de Venezuela, Rio Caribe
1,500 bgs, Rio Caribe
400 bgs, Wessel, Kulenkampf & Co, Rio Caribe
300 bgs, Wessel, Duval & Co, Rio Caribe
62 bgs, Struller & Wood, Curacao
36 bgs, Schutte & Focke, Curacao
122 bgs, Transmarine Mercantile Corp, Curacao
COCONUTS—150 bgs, Kingston
100 bgs, General Food Corp, Kingston
400 bgs, I L Toledano Corp, Cristobal
COCONUT, DESIC—150 cs, Wood & Selick, Colombo
50 cs, Wilbur Ellis Co, Manila
650 cs, Manila
600 bgs, Wood & Selick, Manila
1,600 cs, Dodwell & Co, Manila
1,000 cs, Wilbur Ellis Co, Davao
3,040 pkgs, Philippine Cutch Corp, Zamboanga
600 cs, Wood & Selick, Manila
195 cs, Durkee Famous Foods, Manila
COCONUT DESIC—600 bgs, Philippine Desic Coconut Corp, Manila
359 bgs, Durkee Famous Foods, Manila
692 bgs, 637 cs, General Food Sales Co, Manila
500 cs, Federated Trading Corp, Manila
2,988 pkgs, General Food Corp, Manila
COLORS, EARTH—25 bbls, Smith Chem & Color Co, Rotterdam
CONCENTRATES—1,120 bgs, Brisbane
COPAIBA BALSAM—30 cs, Dodge & Olcott Co, Cristobal
COPPER OXIDE—1 cs, Carbon Co, Havre
CORK—6 bgs, J W March, Lisbon
3 bgs, Fred Henjes, Lisbon
99 bgs, Mundet Cork Co, Lisbon
BOBBINS—11 cs, Cork Import Co, Seville
PIECES—15 bls, Cork Import Co, Seville
STOPPERS—45 bls, Armstrong Cork Co, Seville
WASTE—296 bls, National City Bank, Leixoes
801 bls, Leixoes
97 bls, Wicander & Co, Seville
25 bls, Armstrong Cork Co, Seville
WOOD—2,177 bls, National City Bank, Seville
136 bls, New York & Cuba Mail S S Co, Seville
187 bls, Wicander & Co, Seville
67 bls, Wicander & Co, Lisbon
108 bls, J Alberti, Lisbon
COTTONSEED MEAL—10,000 bgs, Ashcraft Wilkinson Co, St Marc
CUMIN SEED—80 bgs, Barclay Bank, Trieste
50 bgs, Trieste
CUTTLEFISH BONES—40 cs, American Cuttlefish Bone Co, Bordeaux
DANDELION ROOT—17 bgs, Peek & Velsor, Trieste
24 bgs, J L Hopkins & Co, Treste
DERRIS CHIPS—83 cs, J F Frank, Samarang
ROOT—120 bls, Balfour, Guthrie & Co, Batavia
70 bls, Nippon Yusen Kaisha, Kobe
DEXTRIN, POTATO—100 bgs, Transatlantic Animal By-Product Corp, Rotterdam
DILLSEED—6 bgs, M J Corbett & Co, Rotterdam
DRUGS—4 bls, D Johnson, Curacao
DYES, ANILIN—4 bbls, Saint Denis Dyestuff Corp, Havre
EGG WHOLE, DRIED—100 cs, Borden Co, Shanghai
ELDER FLOWERS—10 bgs, R J Prentiss & Co, Trieste
ERGOT—4 cs, Brown Bros Harrimann Co, Leixoes
21 cs, Brown Bros Harrimann Co, Trieste
6 cs, Irving Trust Co, Trieste
16 cs, Irving Trust Co, Trieste
FENNEL SEED—230 bgs, Bombay
FERTILIZER—500 bgs, C Hollingshed Co, Buenos Aires
FILTER PAPER—4 cs, D C Andrews & Co, Havre
FISH LIVERS—17 hlf bbls, 1 bbl, Kachurin Drug Co, Bergen
100 tins, J D Irwin & Co, Kobe
MEAL—200 bgs, Buenos Aires
FLAXSEED—762,000 kilos, 30,480 bus, Bunge North American Grain Co, Buenos Aires
FLEASEED—1,012 bgs, Bombay
FLUORSPAR—1,300 bgs, Associated Metals & Mineral Co, Vera Cruz
GAMBIER—425 cs, I Harrison & Whitney, Penang
54 cs, 69 bgs, Singapore
GELATIN—33 bbls, 5 dms, 20 kgs, T M Duche & Sons, Rotterdam
15 bbls, T M Duche & Sons, Rotterdam
GLASS, PLATE—10 cs, L Solomon & Son, Antwerp
10 cs, Semon, Bache & Co, Antwerp
WINDOW—16 cs, Atlantic Freighting Corp, Antwerp
20 cs, L Solomon & Son, Antwerp
300 cs, Banque Belge pour l'Etranger, Antwerp
80 cs, J Robin & Son, Antwerp
1,431 cs, Semon, Bache & Co, Antwerp
6 cs, Abbotto Glass Co, Venice
3 cs, J Rubin & Son, Venice
13 cs, National Mirror Works, Venice
27 cs, Guardian Trading Corp, Venice
GLUE, SKIN—150 bgs, Bordeaux
GRAPHITE—858 bgs, J F Starkey & Co, Colombo
GUANO—2,095 cakes, 13 bgs, H J Baker & Bros, Buenos Aires
GUM COPAL—35 bgs, W H Scheel, Sourabaya
70 bgs, Gillespie Rogers Pyatt Co, Singapore
200 bgs, Gillespie Rogers Pyatt Co, Antwerp
74 bgs, W H Scheel, Manila
96 bgs, Stroock & Wittenberg, Manila
DAMMAR—300 cs, Thurston & Braidich, Batavia
20 cs, Chase Natl Bank, Batavia
200 cs, G W S Patterson & Co, Batavia
100 cs, Batavia
2 bgs, E C Zimmerman, Batavia
80 bgs, O'G Innes Corp, Tandjong Priok
5 bgs, Sino Java Hvg, Tandjong Priok
100 cs, Sino Java Hvg, Batavia
210 bgs, W H Scheel, Singapore
840 bgs, O G Innes Corp, Singapore
50 cs, Batavia
ELEMI—149 cs, Stroock & Wittenberg, Manila
131 cs, Hanson & Orth, Manila
NESPERO—59 bls, Chicle Development Co, Cristobal
YACCA—229 bgs, Bank of Adelaide, Adelaide
HENBANE LEAVES—6 bls, S B Penick & Co, Trieste
HERBS, CRUDE—26 bls, S B Penick & Co, Antwerp
16 cs, J E Bernard & Co, Leghorn
15 cs, Banco Com'l Italiana, Genoa
9 bls, S B Penick & Co, Genoa
HOPS—12 cs, Atlantic Freighting Corp, Antwerp
20 bls, Bode & Voigt, Trieste
715 bls, Heemsoth-Kerner Corp, Trieste
50 bls, Transatlantic Malt Co, Trieste
180 bls, Bode & Voigt, Trieste
1,014 bls, R F Downing & Co, Trieste
ICHTHYOL—10 cs, H H Rosenthal Co, Kobe
IPECAC ROOT—22 bgs, Eggers & Heinlein, Cristobal
21 bgs, C E Griffin & Co, Cristobal
18 bgs, Murbas Trading Co, Port Limon
IRISH MOSS—50 bls, Innis, Speiden & Co, Havre
30 bls, C H Reisig, Havre
20 bls, S B Penick & Co, Havre
IRON ORE, MAGNETIC—6,465 tons, Bethlehem Steel Co, Narvik
KYANITE—1,068 tons, 4 cwt, Silimanite Co, Calcutta
LEAD CONCENTRATES — 760 bgs, Wedemann-Godknecht, Inc, Beira
LEAVES, MED—9 bls, S B Penick & Co, Genoa
LIME—100 bgs, Standard Brands, Marseilles
LIVER MEAL—200 bgs, English, Scottish & Austria Bank, Sydney
300 bgs, Brisbane
LOGWOOD EXTRACT — 63 cks, United Fruit Co, Kingston
LOOFAHS—1 bl, H Hildebrandt, Kobe
MAGNESITE, CALCINED—100 bgs, 60 dms, Speiden, Whitfield & Co, Rotterdam
MANGANESE ORE—1 bg, Bergen Battery Co, Melbourne
OXIDE—7 cs, Carbon Co, Havre
MARBLE, GRAN—600 bgs, Whittaker, Clark & Daniels, Venice
MATCHES, SAFETY—2,874 tins, Grace Line, Mantyluoto
1,000 cts, Biddle Purchasing Co, Mantyluoto
MEDICINAL PREPS — 3 cs, Burroughs, Wellcome & Co, Sydney
25 cks, 8 cs, Gold Medal Haarlem Oil Co, Rotterdam
25 cs, American Express Co, Rotterdam
4 cks, Hoffmann-La Roche, Genoa
MENTHOL—200 cs, Kobe
MICA, BLOCK—7 cs, Eugene Mfg Co, Calcutta
SPLITTINGS—199 cs, Brown Bros-Harrimann Co, Calcutta
213 cs, Eugene Mfg Co, Calcutta
MUSTARD SEED—10 bgs, Kelleher Carloading & Distr Co, Rotterdam
NAPHTHA, CRACKED, HEAVY—10 bbls, R F Vaughan, Durban
EXTRACT—1 bbl, R F Vaughan, Durban
NETTLE LEAVES—13 bls, S B Penick & Co, Trieste
NUTMEGS—214 bgs, Corn Exchange Bank Trust Co, Tandjong Priok
208 bgs, Batavia
OCHER—750 bgs, C K Williams & Co, Capetown
750 bgs, Reichard-Coulston, Capetown
OIL, ANISE—12 dms, Lo Curto & Funk, Hongkong
10 dms, Elbrook, Inc, Hongkong
CANANGA—5 dms, Cheribon
CHINAWOOD—470 tons, Universal Trading Corp, Hongkong
1,400,000 lbs, Universal Trading Corp, Hongkong
CINNAMON LEAF—1 dm, P R Dreyer, Colombo
CITRONELLA — 64 dms, A Massumeyer, Batavia
16 dms, Catz American Co, Batavia
8 dms, Geo Uhe, Batavia
6 dms, Batavia
8 dms, Stein, Hall & Co, Sourabaya
6 dms, Batavia
312 cs, Batavia
31 cs, Chase National Bank, Batavia
280 cs, 10 dms, Batavia
COCONUT—12 cyls, Volkart Bros, Colombo
495 tons, Colgate-Palmolive-Peet Co, Cebu
446 tons, Wecoline Product, Inc, Cebu
CODLIVER, MED—100 dms, C L Huisking & Co, Bergen
ESSENTIAL—5 dms, Puerto Barrios
1 dm, Rotterdam
20 bbls, 26 cs, Marseilles
3 cs, Rotterdam
48 cs, Havre
4 kgs, Bordeaux
EUCALYPTUS—10 dms, MacCoy Sales Co, Melbourne
38 dms, Orbis Product Corp, Melbourne
LAVENDER—1 dm, Geo Lueders & Co, Seville
4 dms, Fritzsche Bros, Seville
LIME DIST—3 dms, 7 cs, D W Hutchinson & Co, Trinidad
12 dms, Dodge & Olcott Co, Trinidad
OLIVE—200 cs, Leghorn
ORANGE—10 cs, Geo Lueders & Co, Kingston
5 cs, Kingston
PALM—294 tons, Van Leeuwen Boomkamp Co, Belawan Deli
197 tons, Bunge North American Grain Co, Belawan Deli
PARAFFIN—1 pkg, Hercules Powder Co, Rotterdam
PATCHOULI—1 dm, Cheribon
PEANUT—630 tons, Mitsui & Co, Kobe
PETITGRAIN—50 pkgs, Buenos Aires
PINE—1 dm, Commercial Banking Co, Sydney
SAGE—14 cs, Fritzsche Bros, Trieste
ORANGE PEEL—78 bgs, M N Amster, Cristobal
98 bgs, M N Amster, Curacao
PAPAIN—11 cs, McKesson & Robbins, Colombo
PAPRIKA—50 bgs, Knickerbocker Mills Co, Alicante
150 bgs, Alicante
25 bgs, 15 cs, B Fischer & Co, Trieste
40 bgs, Durkee Famous Food, Trieste
47 bgs, H Schoenfeld & Son, Trieste
PARAFFIN—6,400 bgs, Asiatic Petroleum Corp, Balik Papan
3,049 bgs, Standard Oil Co of N J, Tandjong Priok
4,362 bgs, Asiatic Petroleum Corp, Balik Papan
5,082 bgs, Standard Oil Co of N J, Palembang
PASTELS—1 cs, Talens & Son, Rotterdam
PATCHOULI LEAVES—18 bls, Singapore
PEATMOSS—390 bls, Premier Peatmoss Corp, Copenhagen
678 bls, E Bremerman Co, Rotterdam
PEPPER, BLACK—2,236 bgs, Catz American Co, Oosthaven
1,536 bgs, Catz American Co, Batavia
420 bgs, H P Winter & Co, Batavia
PERFUME, SYN—7 cs, Lo Curto & Funk, Rotterdam
PIMENTO—150 bgs, United Fruit Co, Kingston
150 bgs, A G Dunn, Kingston
100 bgs, Mincing Trading Co, Kingston
100 bgs, Barclay Bank, Kingston
70 bgs, Kingston
35 bgs, W E Martin, Puerto Barrios
POPLAR BUDS—24 bgs, J L Hopkins & Co, Trieste
POPPYSEED—13 bgs, Catz American Co, Rotterdam
100 bgs, R L Friedler, Rotterdam
100 bgs, Reiss Bernard, Rotterdam
100 bgs, M Witsenburg, Rotterdam
100 bgs, Levy & Levis Co, Rotterdam
100 bgs, A G Dunn, Rotterdam
150 bgs, J Pechman, Rotterdam
100 bgs, D Hecht, Rotterdam
100 bgs, C M Van Stillvoldt, Rotterdam
100 bgs, I Rusinowitch, Rotterdam
MEAL—15 bls, L Ruhe, Rotterdam
POTASH CHLORATE—1,000 bbls, International Selling Corp, Havre
SULPHATE—2,500 bgs, French Potash Co, Dunkirk
POTATO FLOUR—500 bgs, Rohner, Gehrig & Co, Rotterdam
QUASSIA CHIPS—345 bgs, S B Penick & Co, Kingston
QUICKSILVER—30 flasks, Vera Cruz
RAPESEED — 231 bgs, C Clausen & Co, Buenos Aires
ROOT, MED—10 bls, Peek & Velsor, Antwerp
4 bls, S B Penick & Co, Genoa
ROSIN—5 cs, Mecke & Co, Azua
RUTILE SAND—400 bgs, Bank of Nova Scotia, Sydney
SAFFRON—1 cs, David Kleckner, Alicante
SAGO FLOUR—1,200 bgs, W R Grace & Co, Singapore
SAND—100 bbls, Whitehead Bros, Havre
SCHEELITE ORE—392 bgs, Bank of Nova Scotia, Melbourne
SESAME SEED—166 bgs, Bombay
SHELLAC—100 bgs, 50 cs, Mercantile Import & Export Co, Calcutta
200 bgs, E J Cornelis, Calcutta
300 bgs, Ralli Bros, Calcutta
100 bgs, 150 cs, Mantrose Corp, Calcutta
400 bgs, Wm Zinsser & Co, Calcutta
200 bgs, A Hurst & Co, Calcutta
50 cs, Schwab Bros, Calcutta
200 bgs, Mayer & Co, Calcutta
75 bgs, Gillespie-Rogers-Pyatt Co, Calcutta
100 bgs, Mac Lac Co, Calcutta
BUTTON LAC — 25 bgs, Mantrose Corp, Calcutta
SEEDLAC—200 bgs, Gillespie-Rogers-Pyatt Co, Calcutta
200 bgs, Mercantile Import & Export Co, Calcutta
100 bgs, Schwab Bros, Calcutta
400 bgs, E J Cornelis, Calcutta
500 bgs, Mantrose Corp, Calcutta
150 bgs, Wm Zinsser & Co, Calcutta
SIENNA—35 bbls, Chase National Bank, Leghorn
5 bbls, National City Bank, Leghorn
25 bbls, J Henry Schroeder Banking Corp, Leghorn
10 bbls, Banco di Napoli, Leghorn
SILVER CONCENTRATES — 6 dms, Wedemann-Godnecht, Inc, Beira
SODA CYANIDE—660 cyls, 10 cs, C Hardy, Havre
SILICOFLUORIDE — 416 bbls, Hummel Chem Co, Leghorn
SPONGES—78 bls, Schroeder & Tremayne, Havana
57 bls, J H Rhodes & Co, Havana
33 bls, Gulf West Indies Co, Havana
38 bls, World Sponge Market, Havana
14 bls, New York & Cuba Mail S S Co, Havana
5 bls, J Bloch, Havana
48 bls, Havana
8 bls, J E Bernard & Co, Nassau
2 bls, Kieran Co, Nassau
REFUSE—37 bls, New York & Cuba Mail S S Co, Havana
78 bls, Havana
STARCH, POTATO—100 bgs, Stein, Hall & Co, Rotterdam
200 bgs, Transatlantic By-Product Corp, Rotterdam
STEARIN—214 bbls, Zophar Mills, Marseilles
STRAMONIUM LEAVES—83 bls, 72 bgs, R J Prentiss & Co, Trieste
8 bgs, Trieste
TALC—1,900 bgs, Moore & Munger, Marseilles
155 cs, Binney & Smith, Marseilles
400 bgs, C B Chrystal & Co, Marseilles
575 bgs, Hammill & Gillespie, Marseilles
3,882 bgs, Whittaker, Clark & Daniels, Marseilles
1,690 bgs, L A Salomon & Bros, Marseilles
100 bgs, Marseilles
1 bg, Hammill & Gillespie, Bordeaux
1,850 bgs, L A Salomon & Bros, Bordeaux
3,300 bgs, Whittaker, Clark & Daniels, Bordeaux
600 bgs, C B Chrystal & Co, Bordeaux
200 bgs, Whittaker, Clark & Daniels, Genoa
200 bgs, C B Chrystal & Co, Genoa
TANKAGE—1,258 cakes, 15 bgs, Buenos Aires
TAPIOCA FLOUR—4,946 bgs, Stein, Hall & Co, Balik Papan
700 bgs, W R Grace & Co, Samarang
500 bgs, Cheribon
3 bgs, Sino Java Hvg, Cheribon
1,499 bgs, Chase Natl Bank, Cheribon
250 bgs, Cheribon
334 bgs, Stein, Hall & Co, Sourabaya
1,001 bgs, Stein, Hall & Co, Cheribon
276 bgs, Pasoeroean
2,757 bgs, National Adhesive Corp, Pasoeroean
400 bgs, Bank of New York, Pasoeroean
3,304 bgs, Pasoeroean
690 bgs, Stein, Hall & Co, Sourabaya
665 bgs, Stein, Hall & Co, Semarang
741 bgs, Stein, Hall & Co, Cheribon
1,555 bgs, Chase Natl Bank, Cheribon
550 bgs, H P Winter & Co, Cheribon
2,500 bgs, Catz American Co, Cheribon
250 bgs, G W Rueff & Co, Cheribon
2,093 bgs, Cheribon
1,560 bgs, Pamanoekan
1,200 bgs, Catz American Co, Batavia
2,357 bgs, Stein, Hall & Co, Batavia
2,597 bgs, F Richard, Batavia
525 bgs, Batavia
1,782 bgs, A D Welds & Co, Sourabaya
5,832 bgs, Stein, Hall & Co, Sourabaya
1,000 bgs, Bank of Manhattan, Cheribon
500 bgs, Cheribon
1,000 bgs, Chase Natl Bank, Batavia
3,674 bgs, Sino Java Hvg, Sourabaya
4,285 bgs, Stein, Hall & Co, Sourabaya
4,412 bgs, Sourabaya
200 bgs, Chase Natl Bank, Batavia
700 bgs, H P Winter & Co, Batavia
1,030 bgs, Balfour, Guthrie & Co, Batavia
548 bgs, H P Winter & Co, Batavia
1,000 bgs, Batavia
300 bgs, Chase Natl Bank, Batavia
500 bgs, Balfour, Guthrie & Co, Batavia

TAPIOCA FLOUR—250 bgs, Stein, Hall & Co, Batavia
250 bgs, Chase Natl Bank, Cheribon
500 bgs, Sourabaya
1,702 bgs, Stein, Hall & Co, Batavia
1,312 bgs, Stein, Hall & Co, Cheribon
744 bgs, Rutger, Bleecker & Co, Cheribon
500 bgs, Stein, Hall & Co, Cheribon
PEARL—269 bgs, Catz American Co, Cheribon
SEED—127 bgs, Catz American Co, Cheribon
160 bgs, Catz American Co, Batavia
TARTAR—200 bgs, Chase National Bank, Leghorn
TOPPED EXTRACT—1 bbl, R F Vaughan, Durban
TUBA ROOT—41 bls, Dodwell & Co, Singapore
VANILLA BEANS—24 cs, New York & Cuba Mail S S Co, Vera Cruz
24 cs, Vera Cruz
10 cs, Batavia
2 cs, Batavia
25 cs, Bank of Manhattan, Cristobal
VARNISH—15 cks, Haas Bros, Rotterdam
WATTLE BARK—1,985 bgs, Tannin Corp, Durban
1,684 bgs, Hammond & Carpenter, Durban
393 bgs, Durban
WAX, BEES—38 bgs, Schutte & Focke, Barahona
18 bgs, Schutte & Focke, Azua
34 bgs, Curacao Trading Co, Azua
16 bgs, Lopez, Serrano Co, Havana
CERESIN — 192 bgs, Asiatic Petroleum Corp, Balik Papan
OZOKERITE—140 bgs, Smith & Nichols, Trieste
WHITING—440 bgs, L A Salomon & Bros, Antwerp
WINE LEES—1,635 bgs, Charles Pfizer & Co, Buenos Aires
933 bgs, Standard Brands, Lisbon
WOLFRAM ORE—187 bgs, National Bank of Australia, Adelaide
370 bgs, Bank of Nova Scotia, Sydney
35 bgs, Brisbane
10 bbls, Mercantile Metal & Ore Corp, Leixoes
10 bbls, Emile Offerbacher, Leixoes
100 bgs, Leixoes
2 bbls, 95 bgs, Chase National Bank, Leixoes
100 bgs, Wah Chang Trading Corp, Hongkong
YEAST—1 pkg, Standard Brands, Havana
3 cs, Penson & Co, Rotterdam
ZINC OXIDE—39 bbls, Reichard-Coulston, Marseilles
100 bbls, Orbis Product Corp, Marseilles
ZIRCONIUM SAND—800 bgs, Bank of Nova Scotia, Sydney

New York Transit Imports

BONE DUST—2,000 bgs, Melbourne, Canada
CARAWAY SEED—50 bgs, Sokol & Co, Rotterdam, Chicago
CHEMICALS—154 bgs, Sterling Product Co, Rotterdam, Easton
COCONUT, DESIC—3,300 bgs, General Foods Corp, Manila, Bridgeport
CUTTLEFISH BONES—50 cs, R T French Co, Bordeaux, Rochester
DYES, ANILIN—54 cks, Geigy Co, Genoa, Toronto
41 cks, H S Head, Genoa, Toronto
ERGOT—10 cs, Eli Lilly & Co, Leixoes, Indianapolis
FERTILIZER—1,430 bgs, Ashcraft Wilkinson Co, Buenos Aires, Atlanta, Ga.
GLUE—40 bgs, Melbourne, Canada
OIL, CODLIVER, MED—100 dms, Drury & Co, Bergen, Chicago
500 dms, Valentine Lab, Bergen, Chicago
EUCALYPTUS—1 dm, Commercial Bank of Australia, Melbourne, Quebec
1 dm, 20 cs, Commercial Banking Corp, Melbourne, Montreal
PAPRIKA—300 bgs, Sprague Warner Co, Trieste, Chicago
25 bgs, Reid, Murdoch & Co, Trieste, Chicago
25 bgs, Steele Wedeles Co, Trieste, Chicago
98 bgs, Cudahy Packing Co, Trieste, Nebraska
POPPYSEED—240 bgs, Sokol & Co, Rotterdam, Chicago
TALC—300 bgs, H S Head, Bordeaux, Toronto
TALLOW—500 bgs, 123 cks, 27 bbls, 989 dms, Melbourne, Halifax
216 cks, Brisbane, Halifax

Baltimore Imports

AMMONIA PERCHLORATE—4 cs, Gothenburg
BLOOD, DRIED—1,016 bgs, Santos
BONEMEAL—3,000 bgs, Buenos Aires
CHROME ORE—2,500 tons, Mersine
IRON ORE—21,300 tons, Bethlehem Steel Co, Lebore, Cruz Grande
21,600 tons, Bthlehem Steel Co, Amerikaland, Cruz Grande
7,300 tons, Abu Zenima
6,643 tons, Leo J Buck Inc, Narvik
4,606 tons, Leo J Buck, Inc, Narvik
21,200 tons, Bethlehem Steel Co, Cruz Grande
KYANITE ORE—268 tons, Calcutta
MAGNESITE ,DEAD-BURNED — 17,436 bgs, Trieste
MANGANESE ORE—1,000 tons, Calcutta
1,500 tons, Calcutta
6,650 tons, Rio Janeiro
1,650 tons, Calcutta
7,340 tons, Durban
5,300 tons, Poti
MEAKIN MEAL—4,000 bgs, Kobe
16,000 bgs, Kobe
MOLASSES—1,385,315 gls, Cienfuegos

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OIL, FUEL—94,319 bbls, Standard Oil Co NJ, Guiria
OLIVE—1 cs, Trieste
QUEBRACHO EXTRACT—3,000 bgs, Buenos Aires
SESAME SEED—532 bgs, Kobe
SIENNA—50 bgs, Leghorn

Boston Imports

CHEMICALS—70 bgs, National Shawmut Bank, Rotterdam
GAMBIER—120 cs, L Littlejohn & Co, Singapore
NUTGALLS—561 bgs, J D Lewis, Hongkong
POPPYSEED—75 bgs, Finch Jones Libby, Rotterdam
STARCH, POTATO—750 bgs, First Natl Bank, Rotterdam
TAPIOCA FLOUR—2,335 bgs, Stein, Hall & Co, Batavia
250 bgs, Irving Trust Co, Batavia
507 bgs, Stein, Hall & Co, Sourabaya
1,265 bgs, Stein, Hall & Co, Batavia
1,380 bgs, Pasoeroean
383 bgs, Stein, Hall & Co, Sourabaya
500 bgs, W R Grace & Co, Semarang
2,080 bgs, Balfour, Guthrie & Co, Batavia
750 bgs, Batavia
VANILLA BEANS—25 cs, M M Simons & Co, Bordeaux

Camden Imports

POTASH KAINIT—102,800 kilos, Rotterdam
MURIATE—2,000 tons, Rotterdam
500,500 kilos, Rotterdam

Charleston Imports

TAPIOCA FLOUR—250 bgs, Batavia

Los Angeles Imports

ALCOHOL—10 lbs, Shanghai
APRICOT KERNELS—100 lbs, Hongkong
BONE MEAL—109,980 lbs, Tsingtao
BRISTLES—700 lbs, Kobe
CASSIA—8,880 lbs, Medan
CASTOR BEANS—100,790 lbs, Managua
CHILLIES—6,000 lbs, Kobe
COALTAR PROD—2 lbs, Kobe
COCONUT DESIC—348,080 lbs, Manila
219,310 lbs Zamboanga
COCONUTS—7,000 lbs, Colon
COPRA—705,600 lbs, Iloilo
5,600,000 lbs, Cebu
1,120,000 lbs, Manila
1,120,000 lbs, Manila
3,360,000 lbs Cebu
280,000 lbs, Manila
280,000 lbs, Cebu
MEAL—900,000 lbs, Manila
17,700 bgs, 1,770,000 lbs, Manila
5,000 bgs, 500,000 lbs, Manila
6,720 bgs, 672,000 lbs, Manila
DRUGS, ADVANCED—4,470 lbs, Hongkong
CRUDE—10,500 lbs, Hongkong
680 lbs, Hongkong
FISH LIVERS—314 tins, 12,560 lbs, Japan
MEAL—199,360 lbs, Kobe
FLEASEED—19,680 lbs, Amritsar
GELATIN, ED—19,590 lbs, Rotterdam
GLASS, PLATE—1 cs, 70 lbs, Munich
GREASE, ANIMAL—10 lbs, Shanghai
GUM, LOCUST BEAN—5,600 lbs, Milan
INK, INDIA—4 lbs, Tokyo
LIME PROCESSED—39,930 lbs, Canada
MEDICINAL PREPS—60 lbs, Kobe
40 lbs, Hongkong
MINERALS, CRUDE—320 lbs, Rio Janeiro
OIL, CREOSOTE—5,057,300 lbs, London
ESSENTIAL—60 lbs, Hongkong
HAIR—160 lbs, Kobe
LUBRICATING—20 dms, 9,700 lbs, England
OLIVE—11,170 lbs, Genoa
120 lbs, Italy
PEANUT—1,440 lbs, Hongkong
ORANGE PEEL—180 lbs, Hongkong
PALM KERNELS—234,140 lbs, Medan
PEANUT MEAL—60,000 lbs, Tsingtao
PEPPER, WHITE—11,200 lbs, Batavia
PERFUME—20 lbs, Manila
POPPYSEED—21,800 lbs, Rotterdam
2,750 lbs, Haarlem
SESAME SEED—10,200 lbs, Hongkong
SOAP, TOILET—60 lbs, Kobe
TAPIOCA FLOUR—33,460 lbs, Sourabaya
2,370 lbs, Hongkong
1,580 lbs, Hongkong
TOILET PREPS—10 lbs, Kobe
3 lbs, Paris
4 lbs, Shanghai
WAX, MINERAL — 200,000 lbs, Soenger Gerong
WHITING—22,070 lbs, Malmo

Mobile Imports

TAPIOCA FLOUR—635 bgs, Stein, Hall & Co, Batavia
360 bgs, Irving Trust Co, Batavia
750 bgs, Batavia

New Orleans Imports

COCONUTS—30 tons, Belize
GUM, CHICLE—24 tons, Puerto Barrios
54 tons, Belize

Norfolk Imports

POTASH, KAINIT—2,708,300 kilos, French Potash Co, Dunkirk
MURIATE—2,423,005 kilos, French Potash Co, Dunkirk
SULPHATE—4,000 bgs, French Potash Co, Dunkirk
STARCH—245 bgs, H D Meincke, Rotterdam
POTATO—500 bgs, Rotterdam
TALC—300 bgs, C B Chrystal & Co, Bordeaux
1,500 bgs, L A Salomon & Bros, Bordeaux
TAPIOCA FLOUR—250 bgs, H P Winter & Co, Batavia
750 bgs, H P Winter & Co, Cheribon
1,103 bgs, Irving Trust Co, Cheribon
644 bgs, Morningstar-Nicol, Sourabaya
500 bgs, New York Trust Co, Batavia
1,502 bgs, Batavia

Philadelphia Imports

BRISTLES—50 cs, Kobe
CAMPHOR, REFD—7 cs, Kobe
CARAWAY SEED—50 bgs, C M Van Sillevoldt, Rotterdam
25 bgs, Catz American Co, Rotterdam
50 bgs, Quaker City Coffee Mills, Rotterdam
CELERY SEED—175 bgs, Bombay via Kobe
CHEMICALS—384 bgs, Sterling Supply Corp, Rotterdam
154 bgs, Sterling Products, Rotterdam
COCOA BEANS—1,472 bgs, Lagos
4,530 bgs, Superintendence Co, Lagos
4,881 bgs, Standard Bank of South Africa, Lagos
11,337 bgs, Busi-Stephenson, Ltd, Lagos
1,600 bgs, Superintendence Co, Accra
1,600 bgs, Superintendence Co, Winnebah
2,901 bgs, Phila National Bank, Takoradi
1,384 bgs, Balfour, Guthrie Co, Lagos
6,346 bgs, Standard Bank of S Africa, Accra
3,400 bgs, Superintendence Co, Takoradi
9,600 bgs, Balfour, Guthrie Co, Takoradi
COLOR, EARTH—100 bgs, R T French Co, Antwerp
CORK WASTE—7,489 bls, Cork Insulation Co, Seville
FLINT PEBBLES—340 bgs, J W Higman Co, Copenhagen
GUM—11 cs, 5 bgs, Huth & Co, Alexandria
COPAL—100 bgs, J A Meyers & Son, Antwerp
LICORICE ROOT—1,208 tons, MacAndrews & Forbes, Izmir
MACE—26 cs, Macassar
MANGANESE DIOXIDE—306 bgs, Metal & Thermit Co, Alexandria
ORE—1,000 tons, Calcutta
MEAKIN MEAL—6,000 bgs, Kobe
MOLASSES—1,377,971 gls, E I du Pont de Nemours & Co, Matanzas
NUTMEGS—80 cs, Macassar
94 bgs, First National Bank, Batavia
OIL, CODLIVER—200 dms, The Fox Co, Bergen
17 bbls, Certified Laboratories, Bergen
25 dms, John Wyeth & Bro, Bergen
OSSEIN—1,056 bgs, Kind & Knox Gelatine Co, Antwerp
PETROLEUM—78,000 bbls, Gulf Oil Corp, Puerto la Cruz.
POPPY SEED—50 bgs, C M Van Sillevoldt, Rotterdam
50 bgs, Quaker City Coffee Mills, Rotterdam
SESAME SEED—188 bgs, Bombay via Kobe
SHELLAC—100 bgs, Grace National Bank of New York, Calcutta
300 bgs, National City Bank of New York, Calcutta
SODA SILICOFLUORIDE—400 bbls, H Kohnstamm & Co, Inc, Copenhagen
300 bgs, Sterling Supply Corp, Copenhagen
STARCH, POTATO—100 bgs, Rotterdam
TANKAGE—1,410 cakes, 21 bgs, Buenos Aires
TAPIOCA FLOUR—1,059 bgs, National City Bank of New York, Sourabaya
250 bgs, Batavia
WHITING—1,400 bgs, Manufacturers Trust Co, Antwerp

San Francisco Imports

CARAWAY SEED—100 bgs, Volkman Co, Rotterdam
GLUE—18 bbls, R D McLellan, Rotterdam

Exports from U.S. Ports

Baltimore Exports

ACID, CHROMIC—11,000 lbs, Genoa
SODA, BICHROMATE—22,046 lbs, Greece
CHROMATE—13,440 lbs, Greece

Los Angeles Exports

ACETONE—750 dms, 249,750 lbs, Liverpool; 200 dms, 71,610 lbs, Yokohama; 75 dms, 26,850 lbs, Melbourne; 200 dms, 66,600 lbs, London; 25 dms, 8,950 lbs, Sydney
ACID, ACETIC—20 lbs, Amapala
BORIC—20 bgs, 2,240 lbs, Adelaide; 22 bgs, 2,460 lbs, Brisbane; 200 lbs, San Salvador; 1,300 bgs, 145,600 lbs, Liverpool; 402 bgs, 45,020 lbs, Brisbane; 2,400 bgs, 270,680 lbs, Glasgow; 600 bgs, 67,200 lbs, Liverpool
STEARIC—400 lbs, Port Swettenham
SULPHURIC—2,900 lbs, San Miguel
ASPHALT, 1 dm, 400 lbs, Valparaiso
BLEACH, LIQ—590 lbs, Manila
BORATE—30 bgs, 4,500 lbs, Havre; 550 bgs, 59,000 lbs, Liverpool; 1,850 bgs, 333,110 lbs, Copenhagen; 530 bgs, 57,440 lbs, Glasgow
BORAX—280 bgs, 31,360 lbs, Adelaide; 40 bgs, 4,480 lbs, Brisbane; 160 bgs, 22,400 lbs, Liverpool; 217 bgs, 24,300 lbs, Stavanger; 597 bgs, 66,860 lbs, Brisbane; 3 bbls, 630 lbs, Sydney; 2,600 bgs, 313,600 lbs, Glasgow
GLASS—30 cs, 3,000 lbs, Manila
POWDERED—5 cs, 150 lbs, Manila
CEMENT, RUBBER—5 dms, 20,000 lbs, Manila
CHEMICALS—80 lbs, London
CINNAMON—990 lbs, Corinto; 5,000 lbs, Callao; 2,000 lbs, La Paz; 2,000 lbs, Para Oruro
CLEANER—120 lbs, Hongkong; 560 lbs, Manila; 140 lbs, Manila
CLAY, ACTIVATED—2,400 sks, 120,000 lbs, Oslo
FILTER—4,000 sks, 197,120 lbs, Manchester
COALTAR PRODUCTS—1,220 lbs, Hongkong; 2,630 lbs, Manila; 350 lbs, Hongkong
CLOVES—1,300 lbs, La Paz; 1,300 lbs, Para Oruro
CORN, SYRUP—44,540 lbs, Manila; 88,130 lbs, Manila
CUMIN SEED—1,340 lbs, Chiclayo
DIATOMACEOUS EARTH—40 bgs, 4,000 lbs, Valparaiso; 457 bgs, 44,730 lbs, Liverpool; 806 bgs, 80,600 lbs, Liverpool
GASOLINE—8,729 bbls, Tokuyama; 47,915 bbls, Manila; 17,424 bbls, Cebu; 7,133 bbls, Davao; 14,845 bbls, Tokuyama; 1 dm, 260 lbs, Bolivia; 20,413 bbls, Valparaiso
GLUCOSE—960 lbs, Sucre
GLUE—100 lbs, Manila
GLYCERIN—3,500 lbs, Manila
GREASE—1 dms, 410 lbs, Puntarenas
LUBRICATING—6 dms, 1,740 lbs, Potosi
GYPSUM, CALC—13,440 lbs, Manila
HOPS—1,680 lbs, Manila
HYDROGEN PEROXIDE—1,080 lbs, Manila; 300 lbs, Manila
INK, PRINTING—670 lbs, Manila; 5,250 lbs, Bangkok
ISOPROPYL ETHER—68 dms, 22,370 lbs, Havre
LACQUER—4,750 lbs, Manila; 1,300 lbs, Manila; 170 lbs, San Jose; 1,890 lbs, Santiago; 3,450 lbs, Lima; 5,320 lbs, San Juan
THINNER—880 lbs, San Jose; 7,040 lbs, Santiago; 14,800 lbs, San Juan
LINSEED, MEAL—1,929 bgs, 268,800 lbs, Port of Spain
LUBRICANTS—420 lbs, Manila
NUTMEGS—270 lbs, Chiclayo
OIL, CASTOR—3,200 lbs, Uyuni
COCONUT—94,500 lbs, Puntarenas; 4,200 lbs, San Jose; 1,200 lbs, Chiclayo
COOKING—7,390 lbs, Manila; 920 lbs, Iloilo
DIESEL—60,474 bbls, Manila/Poro; 91,780 bbls, Kawasaki; 8 dms, Puntarenas; 3,000 bbls, Antofagasta; 15,000 bbls, Bolivia
FISH, FLAKE—50,020 lbs, Manila; 102 bgs, 11,220 lbs, Quito
FUEL—39,837 bbls, Manila/Poro; 29,996 bbls, Antofagasta
LEMON—500 lbs, Sydney; 1,500 lbs, London
LUBRICATING—66 pkgs, Manila; 2 dms, Puntarenas; 15 dms, Guayaquil
ORANGE—500 lbs, Sydney
SARDINE—40,000 lbs, Oslo
SOYBEAN, SOLID — 350 bgs, 56,530 lbs, Porto Colombia
PAINT—42,950 lbs, Manila; 380 lbs, Manila; 900 lbs, Lima; 7,230 lbs, San Juan
MATERIAL—5,440 lbs, Melbourne
REMOVER—310 lbs, San Juan
THINNER—140 lbs, Lima
PECTIN, CITROUS—1,000 lbs, Oslo; 5,100 lbs, Liverpool
PEPPER, BLACK—520 lbs, Limon
PETROLEUM, CRUDE—73,273 bbls, Tokuyama; 88,762 bbls, Tokuyama; 72,103 bbls, Tokuyama; 88,964 bbls, Amagasaki; 11,008 bbls, Valparaiso
DISTILLATE—2 dms, 850 lbs, Yokohama
GAS, LIQ—25 cyls, 1,630 lbs, Brisbane
PHARMACEUTICAL PREPS — 6,750 lbs, Manila; 950 lbs, Hongkong; 1,750 lbs, Manila
POLISH—770 lbs, Manila; 170 lbs, San Juan
POTASH, CAUSTIC—60 lbs, Amapala
NITRATE—30 lbs, Amapala
SHELLAC—240 lbs, San Juan
SODA ASH—40,000 lbs, Manila
CAUSTIC—10,200 lbs, Manila; 500 lbs, La Union
SPICES—340 lbs, Tegucigalpa
STAIN, WOOD—700 lbs, Manila
SULPHUR DIOXIDE—3 cyls, 450 lbs, Manila
TALC—10 bgs, 1,000 lbs, La Libertad; 40 sks, 4,000 lbs, Corinto; 200 bgs, 22,400 lbs, Guayaquil
TAPIOCA FLOUR—190 lbs, San Miguel
TOILET PREPS—660 lbs, Manila; 110 lbs, Hongkong; 330 lbs, San Salvador; 330 lbs, San Salvador; 15,050 lbs, Paris
VARNISH—2,390 lbs, Manila
WAX—210 lbs, Manila
FLOOR—400 lbs, Manila; 200 lbs, Manila
STEARIN—100,000 lbs, Manila; 100,000 lbs, Manila
ZINC DUST—50,000 lbs, Manila; 3,000 lbs, La Union

Coastwise Shipments

Los Angeles Coast Trade

GASOLINE—2,200 bbls, Oleum; 40,000 bbls, Seattle; 61,008 bbls, Seattle; 7,394 bbls, San Diego; 7,092 bbls, San Diego; 7,209 bbls, Seattle
KEROSENE—8,864 bbls, Oleum
OIL, DIESEL—6,688 bbls, Oleum; 36,000 bbls, Seattle; 20,447 bbls, Seattle; 1,468 bbls, San Diego
FUEL—60,400 bbls, Portland; 48,990 bbls, San Francisco; 52,000 bbls, San Diego; 63,350 bbls, Avon; 102,643 bbls, Richmond; 8,693 bbls, El Segundo; 33,058 bbls, Astoria; 9,488 bbls, Seattle; 55,207 bbls, Seattle; 74,283 bbls, Oleum
FURNACE—2,966 bbls, Portland; 61,188 bbls, Seattle
PETROLEUM, CRUDE—35,094 bbls, Oleum

Imports Detained

Detentions recently effected at various ports by United States authorities on determination by the Food and Drug Administration that products offered for import were adulterated or misbranded under the Federal food and drug and cosmetic act, or did not comply with other customs regulations, included the following articles for the reason stated:—

New York

Week Ended January 31

Almonds, 25 bales; restricted use.
Cod oil, 200 drums; restricted use.
Codliver oil, 190 drums; restricted use.
Colocynth pulp, 104 bales; not N. F.
Eucalyptus oil, 10 drums; restricted use.
Flavoring powder, 210 cases; false and misleading statements.
Locust beans, 480 bags; water damaged.
Medicinal preparation, 1 package; new drug.
Medicinal preparation, 1 case; below professed standard; false and misleading statements.
Nutmegs, 762 bags; restricted use.
Stropenthin Ampoules, 2 boxes; not U.S.P., false and misleading statements.

Atlanta

Week Ended January 31

Medicinal preparation, 1 parcel; new drug; false and misleading statements.
Olive oil, 1,000 cans; incorrect quantity of contents statement.

Baltimore

Week Ended January 31

Casein, 834 bags; restricted use.

Boston

Week Ended January 31

Mace, 8 cases; water damaged.

Denver

Week Ended January 25

Medicinal, 2 pieces; false therapeutic claims.

Medicinal, one-half gallon; false therapeutic claims.

Week Ended January 18

Medicinal, 2 pieces; false therapeutic claims.

Medicinal, 100 pieces; below declared potency.

Los Angeles

Week Ended January 25

Medicinal, 20 pieces; false and misleading statements.

Week Ended January 18

Hair oil, 2 cases; false and misleading statements.

Skin lotion, 24 pieces; false and misleading statements; net contents not declared; alcohol not declared.

Medicinals, 300 cases; false therapeutic claims.

Perfume, 144 pieces; net contents not declared.

Philadelphia

Week Ended January 31

Licorice root, 244 bales; water damaged.

San Francisco

Week Ended January 25

Medicinal, 72 pieces; false therapeutic claims.

Week Ended January 18

Flavoring, food, 20 cases; false therapeutic claim.

Medicinal, 200 pieces; false therapeutic claims.

Seattle

Week Ended January 25

Sesame seed, 5 cases; filthy.

Week Ended January 18

Medicinals, 1,080 pieces; false therapeutic claims.

Lye water, 2 cases; caustic poison and improperly labeled (Sec. 2) (b).

Government Buying Without Bids Proposed

OPD Washington Bureau
January 30, 1940

A bill (H. R. 8152) to provide for procurements without advertising on government purchases where the expenditures involved is $100 or less has been reported to the house by its committee on expenditures in the executive departments.

The object of the measure is to establish a standard practice with regard to exemptions from the general requirement of granting contracts to the lowest responsible bidder. The committee, in its report, explains that over a period of years many such exemptions have been specifically granted, with resulting confusion. The bill is sponsored by Representative John J. Cochran of Missouri.

Foreign Trade Openings

Correspondence in regard to any of the following trade openings should be addressed to the Bureau of Foreign and Domestic Commerce, Washington, D. C., or to any district office or cooperative office of the bureau, and not to this publication. When writing give the number of the item:—

Tonics:—San Jose, Costa Rica; purchase (5416).

Turpentine:—Alexandria, Egypt; agency (5522).

Turpentine:—Alexandria, Egypt; purchase and agency (5352).

Varnish, Can:—Tel-Aviv; Palestine; purchase (5888).

Wax, Carnauba:—Sydney, Australia; purchase (5239).

Wax, Artificial:—Reykjavik, Iceland; purchase (5600).

Zinc Oxides:—Cairo, Egypt; agency (5381).

Waxes: — Trim, Ireland; purchase (5546).

Zinc Chlorate:—Bombay, India; purchase (5584).

'Mr. Hartman' Not Connected With Kauffman-Lattimer Co.

A "Mr. Hartman," representing himself to be a member of the Kauffman-Lattimer Company, wholesale druggists, Columbus, Ohio, has approached pharmaceutical manufacturers in this city, endeavoring to cash a check in an "emergency." The Kauffman-Lattimer Company states that no such individual has ever been in their employ. He is described as being about sixty years of age; five feet, six inches tall; slender; gray hair and moustache; very white teeth, slightly separated; well dressed; and claims to have been with Kauffman-Lattimer for forty years.

Bids Wanted

Acetic Acid:—5,500 pounds; Contracting Officer, Materiel Division, Army Air Corps, Wright Field, Dayton; procurement 982, opening February 7.

Aluminum Potash Sulphate:—2,600 pounds; Contracting Officer, Materiel Division, Army Air Corps, Wright Field, Dayton; procurement 982, opening February 7.

Benzol:—8,000 pounds; Commanding Officer, Chemical Warfare Service, Edgewood Arsenal, Md.; procurement 466, opening February 9.

Carbon Tetrachloride:—8,000 pounds; Commanding Officer, Chemical Warfare Service, Edgewood Arsenal, Md.; procurement 466, opening February 9.

Chlorine:—30,000 pounds; U. S. Engineer Office, 2100 Virgina Avenue, N. W., Washington; procurement 131, opening February 9.

Chrome Green:—5,000 pounds; Purchasing & Contracting Officer, Quartermaster Corps, Fort Benning, Ga.; procurement 148-170, opening February 7.

Creosote Oil:—6,000 gallons; General Purchasing Officer, Panama Canal Zone, Washington; schedule 3869, opening February 7.

Drugs:—115 items; Commanding Officer, St. Louis Medical Depot, Second & Arsenal Sts., St. Louis; procurement 17, opening February 14.

Enamel, Interior:—2,000 gallons; General Purchasing Officer, Panama Canal Zone, Washington; schedule 3869, opening February 7.

Ethylene Dichloride:—2,100 gallons; Contracting Officer, Materiel Division, Army Air Corps, Wright Field, Dayton; procurement 982, opening February 7.

Flavoring Extracts:—Supplies for Eastern and Western yards; Bureau of Supplies & Accounts, Navy Department, Washington; schedule 560, opening February 20.

Gasoline:—3,050,000 gallons; General Purchasing Officer, Panama Canal Zone, Washington; schedule 3885, opening February 12.

Glue, Animal:—2,000 pounds; General Purchasing Officer, Panama Canal Zone, Washington; schedule 3869, opening February 7.

Glycerin:—1,950 pounds; Contracting Officer, Materiel Division, Army Air Corps, Wright Field, Dayton; procurement 982, opening February 7.

Grease, Lubricating:—1,000 pounds; General Purchasing Officer, Panama Canal Zone, Washington; schedule 3869, opening February 7.

Gum, Arabic:—1,150 pounds; Contracting Officer, Materiel Division, Army Air Corps, Wright Field, Dayton; procurement 982, opening February 7.

Hydroquinone:—2,750 pounds; Contracting Officer, Materiel Division, Army Air Corps, Wright Field, Dayton; procurement 982, opening February 7.

Iron Ammonia Citrate:—2,000 pounds; Contracting Officer, Materiel Division, Army Air Corps, Wright Field, Dayton; procurement 982, opening February 7.

Oxalate:—6,000 pounds; Contracting Officer, Materiel Division, Army Air Corps, Wright Field, Dayton; procurement 982, opening February 7.

Iron Soda Oxalate:—2,700 pounds; Contracting Officer, Materiel Division, Army Air Corps, Wright Field, Dayton; procurement 982, opening February 7.

Lard Oil:—2,000 gallons; Commanding Officer, Rock Island Arsenal, Ill.; procurement 621, opening February 8.

Lard Oil:—1,000 gallons; General Purchasing Officer, Panama Canal Zone, Washington; schedule 3869, opening February 7.

Lead, White:—100,000 pounds; General Purchasing Officer, Panama Canal Zone, Washington; schedule 3869, opening February 7.

Lime Hydrated:—Supplies for Deleware and Maryland; Division of Purchases, Sales & Traffic Department of Agriculture, Washington; procurement 7679, opening February 14.

Linseed Oil, Raw:—54,250 pounds; General Purchasing Officer, Panama Canal Zone, Washington; schedule 3869, opening February 7.

Monomethyl Paraminophenol Sulphate:—1,075 pounds; Contracting Officer, Materiel Division, Army Air Corps, Wright Field, Dayton; procurement 982, opening February 7.

Muriatic Acid:—6,284 pounds; Contracting Officer, Materiel Division, Army Air Corps, Wright Field, Dayton; procurement 982, opening February 7.

Naphthalene:— 20,000 pounds; Quartermaster Supply Officer, Fort Mason, San Francisco; procurement 928-328, opening February 8.

Nitric Acid:—8,670 pounds; Contracting Officer, Materiel Division, Army Air Corps, Wright Field, Dayton; procurement 982, opening February 7.

Paint:—2,420 gallons for interior; Quartermaster, Marine Corp, Washington; procurement 590, opening February 12.

Ready-Mixed:—6,000 gallons; Purchasing Officer, Panama Canal Zone, Washington; schedule 3886, opening February 8.

Paint Remover:—2,000 gallons; General Purchasing Officer, Panama Canal Zone, Washington; schedule 3869, opening February 7.

Paraffin Oil:—8,000 gallons; Commanding Officer, Rock Island Arsenal, Ill. procurement 632, opening February 8.

Quicksilver:—650 pounds; Contracting Officer, Materiel Division, Army Air Corps, Wright Field, Dayton; procurement 982, opening February 7.

Shellac, Orange, Flake:—20,000 pounds; General Purchasing Officer, Panama Canal Zone, Washington; schedule 3869, opening February 7.

Soda Ash:—11,920 pounds for Mare Island and Puget Sound; Bureau of Supplies & Accounts, Navy Department, Washington; schedule 92, supplemental bids February 16.

Umber, Burnt:—2,000 pounds; General Purchasing Officer, Panama Canal Zone, Washington; schedule 3869, opening February 7.

Varnish:—3,000 gallons; General Purchasing Officer, Panama Canal Zone, Washington; schedule 3869, opening February 7.

Training Chemical Industry Executives

—Continued from page 5

ward to make such advancements, and render the maximum of assistance in making the new unit produce the best results. Any other source of personnel is likely to be less efficient and may engender much discouragement to the younger employees, as well as be quite costly.

In our particular problem here we are concerning ourselves with relatively minor executives, those nearer the straw-boss end of our series. Once set on the lower rung of the ladder, it is up to the individual to merit the advance, to find his top. That progression over and above the start is not dealt with here. Even following the pattern of start I am outlining, our candidate will meet with plenty of competition with those already in the organization, in fact with those that enter through other doors. More than that, he will find many avenues of advancement open in which he will have little or no specific advantages. In short, I shall deal more or less theoretically with a specially selected group, which shall serve as an emergency reservoir from which may be drawn men of relatively broad experience to fit into certain types of work that through competitive promotions may lead to minor executive positions difficult to fill otherwise. From there on it is a free-for-all!

Value of Engineering Training

I believe that future executives will come generally from those groups with engineering training. While such training can be acquired by experience, home study, correspondence, tutoring, much time is saved by the college or technical school. A graduate in engineering of a large, well-equipped, and rigidly controlled school has a tremendous time advantage. Here he receives a fundamental education in the general sciences, the fundamentals of construction and general engineering for two or three years—say, at least 50 percent of his course. The other 50 percent should be divided into 20 percent of cultural work and 30 percent of specific topics in the specialized field in which he desires to serve after graduation. I feel that in the not distant future such education will not be attempted in four years, but emphasis will be laid more on the general education, and the specialized engineering work will demand additional years; the six-year course would be better.

Nor do I feel these additional years should involve post-graduate type of work as now understood; that is too specialized for our particular purpose. I would like to see a broader extensive education rather than intensive for this particular purpose. I should devote more time to English—composition, spelling, speaking—to economics, general accounting, labor relationship, psychology, even industrial history. These subjects should be taught by engineers, not with the idea of making specialists in these fields, but for acquaintanceship with their daily applications. Engineering English is as different from classical English as day is from night. It has no place for fiction, mystery, or space writing. It is a distinctive branch, and should so be taugh by competent and experienced instructors. Classical economics are excellent for the future economist, but for the future executive a more direct application of the basic principles is a better approach.

These future executives are going to deal with people. Human relationship and the psychology of teamwork are extremely important. In fact, so much so that I believe in more selection by the school itself, so that valuable plant and staff are not wasted on turning out so many misfits.

The specific branch of engineering studied is not an all-determining factor in the selection of a man for a future job. I think a prospective chemical executive should know some chemistry, and an electrical executive some electricity; but this is not always a determining factor. The broader we make our engineering courses the less this problem of selection of course study becomes.

The college should not attempt to turn out a finished product in the shape of a chief engineer, a factory superintendent, or even a vice-president. This involves too much specialization which would probably not fit with any existing organization. In this particular field we need not concern ourselves with post-graduates. Post-graduate work is too highly specialized in most of the colleges with which I am familiar, and the time spent is probably not warranted, in my opinion, in our selection of the raw material for future executive work. I am in favor of post-graduate work for places in many of the specific technical lines, but I do not consider it essential for the material that we are considering to develop into some sort of an executive. If our future candidate can afford the time and money for further education, it should be in the humanities and in the broader field of the regular classroom, not in post-graduate schools.

At this stage in my presentation, I have reached the conclusion that the youngster intending to enter the chemical industry and with the intention of going somewhere in it, should have an engineering education, preferably with a considerable knowledge of chemistry, and naturally, though not absolutely necessary, a chemical engineering training.

I am not unaware of the fact that many schools give considerable chemical education to all classes of engineers. I am not unaware that many chemical plants spend a great deal of money for power, steam, electricity, water and for handling materials; and that mechanical, electrical, and maintenance departments measure up with the chemical units in size and cost. In distribution, the service men get into all kinds of industry, some of our best customers not necessarily operating a chemical plant in its narrow sense, at all. Hence, I say, some chemistry, but not too much at the expense of the broad fundamental engineering.

Problem of Selection

The problem of selection of these employees who may some day be in important executive positions is not easy. Any man who has any hesitation in attacking any job that may be assigned to him immediatdly creates a handicap. In the case of the college graduate, he has spent years and money in obtaining an education, and he deserves a wage in keeping with his investment. He may indicate a preference for the type of work he is seeking, but from my standpoint, that is often a definite limitation. Once the wage is set, and on a fair basis, he must be willing to serve in any capacity assigned, no matter how humble. He should be openly told the program ahead of him, the services expected of him, and the relatively nearby rewards, if he passes the test. Actually at this stage of the career he knows little of industrial work, and any conclusions on his part are rarely well based. He must be educated in his new environment.

I prefer to lay more stress on personality than on scholarship. I want a man who has done something better than to have barely been graduated, but it is really not necessary that he be an honor man. If I can get such an honor man with the right personality, so much the better. Now this matter of personality is hard to appreciate in the usual course of a short interview. If a man seems to possess some possibilities, I would take him on and put him in a training course in one of the plants, where he is put to work at any convenient job that brings him into contact with fellow-workmen. He may be assigned as a helper on a process, on a maintenance gang, even with the yard and shipping crews.

The object of this is to see if he can get along with his fellowmen, if he has the right attitude toward the job—that is, any job. He should be kept on such work at least three months. Every few weeks he should be called up before a plant executive and given a quiz, either written or oral, to see what he has learned. At the same time, reports should be requested from his immediate bosses regarding his relationship with his fellow-worker, who may be a common laborer. If he cannot get along with his coworkers, he will never become an effective supervisor, executive, or salesman, all of whose contacts are more with the human element than with an apparatus.

(To be continued)

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CINCINNATI FIRM established over twenty years and covering the State of Ohio and also Louisville, Kentucky, would be interested in representing A-1 producers of oils, pigments, chemicals and other raw materials. BOX 697, Oil, Paint and Drug Reporter.

PAINT SALESMAN wisnes to represent reliable manufacturer of paints and kindred lines in Greater New York. Have facilities to carry stock and can sell volume; 14 years' experience. BOX 710, Oil, Paint and Drug Reporter.

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Equipment Offered

FOR SALE—Two rubber lined wood tanks in good condition; capacities 4,050 and 3,200 gallons. For further specifications write The Globe Chemical Company, Cincinnati, Ohio.

FOR SALE:—Three 12x30 in. watercooled 3-roll paint mills. Located Ohio. Direct motor drives. Very low price for immediate removal. BOX 705, Oil, Paint and Drug Reporter.

Equipment Offered

JAR MILLS, motor driven, 1-4-23 gallons; 120 cubic ft. Day powder mixer; 300-gallon jacketed kettle; 3,500-gallon aluminum still; 20 HP economic boiler ASME code. Lawler Engineering Company, Durham avenue and L. V. R. R., Metuchen, N. J.

FOR SALE:—One No. 10 Sweetland filter; four 7x5 ft. pebble mills; 9x24 inch and 12x30 inch roller mills; Proctor six truck atmospheric dryer; 3x8 ft. rotary steam tube dryer; No. 00 Raymond mill; Gruendler 50 H.P. hammer mill; Ball and Jewell No. 1 rotary cutter; Stedman 42-inch disintegrator; four 900-gal. closed, jack., agitated kettles; 32-inch copper basket centrifugal; jacketed, agitated vacuum stills; copper, aluminum, steel and glass lined kettles and tanks; Hammer mills; crushers and pulverizers; tablet machines, ½ to 2 inch, single punch and rotary; filter presses to 36 in. sq.; disc filters; iron mills; bottle fillers and washers. Only partial listing. Write for chemical bulletin No. 128 and pharm. bulletin No. 113. We buy your surplus machinery. Stein Equipment Corp., 426 Broome street, New York City.

FOR SALE:—Two 6x8 ft. pebble mills, 16x40 roller mills, 12x30 roller mills, 9x24 roller mills, 15 to 40-gallon pony mixers, lead mixers. Sell us your surplus equipment. Irving Barcan Company, 30 Church street, New York City.

Equipment Wanted

WANTED—For chemical plant, filter press, jacketed kettle, vacuum dryer, powder mixer, pulverizer. BOX 712, Oil, Paint and Drug Reporter.

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Materials Offered

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Materials Wanted

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Positions Vacant

LACQUER CHEMIST wanted, highly skilled. Must have an unusually good background with proved success in previous work. BOX 704, Oil, Paint and Drug Reporter.

Positions Wanted

CHEMICAL ENGINEER, 25, 1939 graduate, anxious to get started in field. Will apprentice without compensation. Four years manufacturing experience outside chemical industry. Can adapt himself. Show him opening on your terms, with future possibilities, and will prove capabilities. Location immaterial. BOX 703, Oil, Paint and Drug Reporter.

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SUPERINTENDENT — Pill and tablet; capable, efficient and practical management of same; general knowledge of all pharmaceutical manufactured products. Would welcome a desirable change in position. Of excellent character and habits. Can furnish best of references. BOX 707, Oil, Paint and Drug Reporter.

CHEMIST, 37, experienced in all departments of paints, lacquers and varnishes (oil, cellulose and artificial resins), formulating, analyzing, manufacturing. Experienced in many special products for industrial purposes, seeks position. P. O. Drawer 275, Bristol, Tenn.

SALESMAN wishes line of raw material, solvents or popular manufactured item in addition to present shellac line handled for ten years. Commission basis; New Jersey and upstate New York. BOX 708, Oil, Paint and Drug Reporter.

Positions Wanted

GERMAN REFUGEE, 1 month in America, formerly chief chemist and production manager in own paint, lacquer and varnish factory; 12 years' experience in all departments of the branch; able to formulate and manufacture many special industry lacquers and varnishes, wants position. 708 Euclid avenue, Bristol, Va.

SALESMAN—Detail man; excellent experience in pharmaceuticals and biologicals, wishes to connect with first-class house offering opportunity for advancement. Highest type of references. BOX 709, Oil, Paint and Drug Reporter.

YOUNG MAN wishes selling position; chemicals or related products; thoroughly experienced; technical education; first-class references. BOX 713, Oil, Paint and Drug Reporter.

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Services Offered

CHEMIST and chemical engineers—if you are now unemployed send your complete chronological record of education and experience to Chemist Advisory Council, 300 Madison avenue, New York City.

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HIGHER MARKETS—Sell now. Wanted—surplus or off-grade waxes, chemicals, greases, oils, botanicals, solvents, aromatics, gums, metals. Also wastes, by-products, residues. Single lots. Entire plants. Chemical Service Corp., 237 Fourth avenue, New York. STuyvesant 9-0133.

WILL BUY—Your surplus or off-grade chemicals, oils, waxes, pharmaceuticals, gums, by-products, residues. For quick action phone Mr. Gelb, WAlker 5-4250. Barclay Chemical Company, Inc., 75 Varick street, New York.

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Trade Briefs

Sohio Pipe Line Company, Cleveland, will lay a 240-mile pipeline from Stoy, Ill., to Lima, O.

Yarnall Paint Company, Philadelphia, has added J. Willard Mount, of Indianapolis, to its mid-Western industrial sales staff.

Tennessee Valley Paper Mills, Inc., plans the construction of a paper mill in Savannah, Tenn., at a cost of $4,000,000.

Ohio Chemical & Manufacturing Company stockholders have approved the sale of the company to the Air Reduction Company, this city.

Prescott Paint Company, this city, has elected E. P. Williams vice-president.

Kali Chemie A.G., an outstanding producer of chemicals in Germany, floated recently a bond-issue of 10,000,000 marks.

Kiyoshi Miyszeki, of Mitsui & Co., Ltd., importer of Far Eastern products, this city, has applied for associate membership in the New York Produce Exchange.

Edward J. Suor, vice-president of the Hygrade Oil & Fuel Corporation, Buffalo, has been elected president of the Greater Buffalo Advertising Club for 1940.

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Index to Advertisements

Advance Solvents & Chemical Corp... —
Agicide Labs... 66
Albers, H. L., Co... 45
Alexander, Jerome... 58
Allied Asphalt & Mineral Corp... —
American Agricultural Chem. Co... 1
American-British Chem. Supplies, Inc. —
American Can Co... —
American Cyanamid & Chem. Corp. 24, 25
American Flange & Mfg. Co., Inc... —
American Potash & Chemical Corp.. 60
American Turpentine Farmers Assoc. Cooperative ... —
Anderson Prichard Oil Corp... —
Angus, W. W., Inc... 47
Apex Chemical Co., Inc... —
Association of Consulting Chemists and Chemical Engineers... 58
Atlantic Coast Fisheries Corp. of N.Y. 50
Atlantic Refining Co... —

Baker, J. T., Chemical Co... 50
Barium & Chemicals, Inc... 32
Barium Reduction Corp... 30
Barrett Company... 34, 59
Benzol Products Co... 50
Binney & Smith Co... 39
Bradley, A. J., Mfg. Co... 44
Brighton Copper Works... —
Brill Equipment Corp... 64
Brode, Corp., The... 47
Brown, Leland, Laboratories... 58
Bureau of Chemistry... 58
Burke, Edw. S... 49
Bush, W. J., & Co., Inc... —

Calco Chemical Div... —
Calif. Fruit Growers Exchange... 15
Calvert, Robert... 58
Carbide & Carbon Chemicals Corp.... 2
Carey, The Philip, Co... 50
Carpinello, M. J... 58
Chaplain & Bibbo, Inc... 52
Chemical Solvents, C. P., Inc... 66
Chilean Nitrate Sales Corp... 60
Church & Dwight Co... 30
Climax Molybdenum Co... 8
Colgate-Palmolive-Peet Co... 50
Colledge, E. W., General Sales Agent. 43
Colton, Arthur, Co... 44
Columbia Alkali Corp... —
Commercial Solvents Corp... —
Conewango Refining Co... —
Consolidated Products Co., Inc... 64
Consumers Import Co., Inc... 52
Continental Carbon Co... —
Cowles Detergent Co... 23
Crown Can Co... 16
Cuban American Manganese Corp.... —

Darling & Co... —
Day Chemical Co... 58
Dewey & Almy Chemical Co... —
Diamond Alkali Co... 31
Dodge & Olcott Co... —
Doggett, Stanley, Inc... 44
Dorward & Sons Co... 46
Douglass Sulphur Co... 32
Dow Chemical Co... —
Dunkel, Paul A., & Co., Inc... 53
DuPont de Nemours, E. I., & Co... 65
Durez Plastics & Chemicals, Inc... 27

Eastman Kodak Co... —
Ehrlich, J... 58
Electrical Testing Laboratories... 58
Electro Bleaching Gas Co... —
Ellis Foster Co... 58
Emery Industries, Inc... 45

Felton Chemical Co., Inc... —
Fezandie & Sperrle... 37
First Machinery Corp... 64
Food Research Laboratories, Inc... 58
France, Campbell & Darling, Inc... 54
Frank-Vliet Co... —
Franks Chemical Products Co... —
Freeport Sulphur Co... —
Fritzsche Bros., Inc... 54, 57
Fulton Bag & Cotton Mills... —

General Chemical Co... 10
General Drug Co... 54
General Dyestuff Corp... —
General Electric Co... 26
General Petroleum Corp. of Calif.... —
Gesell, R., Co., Inc... —
Givaudan-Delawanna, Inc... 41
Glyco Products Co., Inc... —
Gray, William S., & Co... 1
Gray Industrial Laboratories... 58
Greeff, R. W., & Co., Inc... 49
Gross, A., & Co... 45
Gruman, J. B., & Co... 62

Hammond W. A., Drierite Co... —
Hardesty, W. C., Co., Inc... —
Harshaw Chemical Co... —
Heekin Can Co... —
Heyden Chemical Corp... 36
Hilton-Davis Chemical Co... 42
Hochstadter Laboratories... 58
Holt, C. J., & Co., Inc... 58
Hooker Electrochemical Co... —
Hopkins, J. L., & Co... 53
Huisking, Charles L. & Co., Inc... 50
Hutchinson, D. W., & Co., Inc... 55

Imperial Oil & Gas Products Corp.... 43
Imperial Paper & Color Corp... 41
Independent Mfg. Co... —
Industrial Consulting Labs., Inc... 58
Innis, Speiden & Co... —
International Pulp Co... —
International Selling Corp... 32
Irvington Smelting & Refining Works. 30

Jungmann & Co., Inc... —

Kelco Co... 53
Kellogg, Spencer, & Sons, Inc... —
Kentucky Color & Chemical Co... 43
Knight, B. H... 58
Koppers Co... 35
Krebs Pigment & Color Corp... —

Laning, E. M., Co... 58
La Wall & Harrisson... 58

Leghorn Trading Co... 50
Lemke, B. L... 66
Leonhard, Theodor, Wax Co., Inc... 47
Luaces, E. L., & Associates... 58
Lueders, George, & Co... 55

Magnetic Pigment Co... 39
Magnus, Mabee & Reynard, Inc... 55
Mallinckrodt Chemical Works... 6
Mantrose Corp... —
Mathieson Alkali Works, Inc... 22
Merck & Co... 48
Metasap Chemical Co... —
Meyer, Herman, Drug Co., Inc... —
Miel, George, A... 58
Mills, Zophar, Inc... —
Minnesota Specialty Co... —
Molnar Laboratories... 58
Monsanto Chemical Co... —
Munch, James, & Co... 58
Mutual Chemical Co. of America... 37

National Aniline & Chemical Co., Inc. —
National Carbon Co., Inc... —
National Lead Company... —
National Milk Sugar Co., Inc... 50
National Rosin Oil & Size Co., Inc... 42
Natural Products Refining Co... 37
Neuberg Chemical Corp... 52
Neville Co... —
New Jersey Zinc Co... 38
Newport Industries, Inc... —
N. Y. Quinine & Chemical Works, Inc. 51
Niacet Chemicals Corp... 37
Niagara Alkali Co... 21

Oldbury Electrochemical Co... 65
Orbis Products Corp... —
Orthmann Laboratories, Inc... 58
Osborn, C. J., Co... 42

Pacific Coast Borax Co... 1
Pacific Vegetable Oil Corp... —
Paramet Chemical Corp... 39
Parsons, M. W... 42
Paul, Edw., P., & Co... —
Pellerano, S... 58
Penick, S. B., & Co... 52
Pennsylvania Coal Products Co... 52
Pennsylvania Oil Products Refining Company ... 66
Pennsylvania Refining Co... —
Petroleum Specialties, Inc... —
Pfaltz & Bauer, Inc... —
Pfizer, Chas., & Co., Inc... 29
Phelps Dodge Refining Co... —
Philipp Brothers, Inc... —
Polachek, Z. H... 58
Potash Co. of America... 59
Pressed Steel Tank Co... —
Prior Chemical Corp... 1
Procter & Gamble... 45, 50
Publicker Commercial Alcohol Co.... 1
Purdy, W. S., Co., Inc... 58
Pure Calcium Products Division... 1

Raisch, John E. & Co... 58
Reichhold Chemicals, Inc... 40
Republic Steel Corp... 36
Rimberg, A. J., Co... 47
Rosenthal, H. H., Co., Inc... —
Rufert Chemical Co... 57

Sadtler, Samuel, P., & Sons, Inc... 58
St. Joseph Lead Co... —
Schuylkill Chemical Co... 50
Schwarz Laboratories, Inc... 58
Seil, Putt & Rusby, Inc... 58
Shanahan's, Ltd... —
Shell Oil Co., Inc... 20
Sherwood Petroleum Co., Inc... 57
Signode Steel Strapping Co... —
Skelly Oil Co., Inc... 19
Sloman, Ira I... 58
Smith, Kline & French Labs... —
Snell, Foster D., Inc... 58
Socony-Vacuum Oil Co., Inc... 43
Solvay Sales Corp... 32
Sonneborn, L., Sons, Inc... 66
Sparkler Mfg. Co... 44
Standard Alcohol Co... —
Standard Brands, Inc... —
Standard Oil Co. of Calif... 36
Standard Synthetics Co... —
Standard Ultramarine Co... 44
Stauffer Chemical Co... 30
Stillwell & Gladding... 58
Stroock & Wittenberg Corp... —
Sun Oil Co... —

Taintor Trading Co... —
Tamms Silica Co... —
Tar & Chem. Division of Koppers Co. 35
Tennessee Corp... 32
Texas Gulf Sulphur Co., Inc... —
Thornton, The F.C., Co., Inc... —
Thurston & Braidich... 66
Titanium Pigment Corp... —
Todd, A. M., & Co... —
Tombarel Products Corp... 55
Turner, Joseph, & Co... 30

Union Carbide & Carbon Corp... 2
U. S. Industrial Chemicals, Inc.... 17, 18
United States Potash Co... 59

Vanderbilt, R. T., Co... 42
Victor Chemical Works... 32
Viking Distributing Co... —
Vitro Manufacturing Co... —
Vorce, L. D... 58

Wah Chang Trading Corp... 45
Warner Chemical Co... —
Wecoline Products, Inc... 66
Weiss & Downs, Inc... 58
White Tar Co. of N. J., Inc... 35
Wiley & Co... 58
Will & Baumer Candle Co... 47
Williams, C. K., & Co... —
Wishnick-Tumpeer, Inc... —
Woburn Degreasing Co. of N. J.... 46
Wolf, Jacques, & Co... —
Wood Preserving Corp... 35
Wood Ridge Div... —

Zophar Mills, Inc... —

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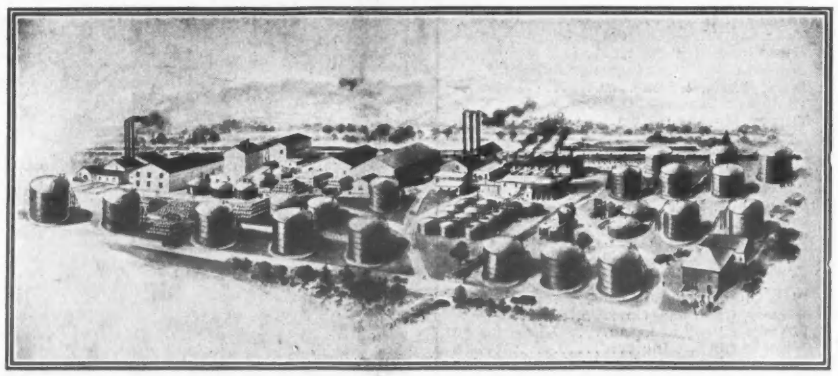

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